



# **2020 Census**

## **April 2017**

### **Monthly Status Report**

All information in this report is as of April 30, 2017  
unless otherwise stated in the title of the page.

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## **Key Program Updates**

### **2017 Census Test**

- Census Day occurred on April 1, 2017.
- Completed training for all Customer Service Representatives on April 14, 2017.
- Completed all contacts (1 through 5) (internet invitations, questionnaires, reminder letters and postcards) for the 2017 Census Test on schedule from March 20, 2017 through April 20, 2017.

### **2018 End-to-End Census Test**

- Accepted space for the Seattle Area Census Office (ACO) on April 4, 2017. Official open date is to be determined (TBD).
- Transitioned Learning Management System and Third-Party Vendor (3PV) Fingerprinting Solution Acquisition to the Census Schedule A, Human Resources, and Recruiting Payroll System (C-SHaRPS) team.
- Held Operational Readiness Review Kick-off meeting for Training Release 1: Address Canvassing on April 12, 2017.
- Continued to complete key milestones in support of production readiness - Training Release 1 (Address Canvassing onboarding and training) and Release A (In-Field Address Canvassing) systems.
- Continued successfully testing threads and interfaces for Release A and Training Release 1.
- On-boarded some of the March 8, 2017, Test Readiness Review (TRR) Systems into the Technical Integrator (TI) Cloud environment, and will use the TI software development and information technology process, including Enterprise Censuses and Surveys Enabling (ECaSE). This activity started in April, and will continue until Address Canvassing goes live later this summer.

### **2020 Census Operations**

- Received the final delivery of Internal Demand Models from the Technical Integrator. Currently have demand models for all external and internal interfaces.
- Continued production of the 2020 Census In-Office Address Canvassing Interactive Review, and met the expected production goals. The clerks completed 10,347,534 blocks during Interactive Review from the beginning of production in September 2015 through April 30, 2017. One hundred and eight staff members are working Interactive Review (IR) in production and 12 are performing Quality Control (QC).
- Presented high-level objectives of the Census Bureau and United States Postal Service coordination team partnership and responsibilities at the 2020 Program Management Review on April 21, 2017. The high-level objectives fell under four categories: Mailing and Delivery Services, Data Products and Services, Workforce Services, and Cross-cutting activities.

## **Key Program Updates Cont'd**

### **2020 Census Operations Cont'd**

- The Archiving Operation met with the National Archives and Records Administration's Information Technology (IT) representatives, along with the Census Bureau's Records Administrators and the Decennial Systems Architects on April 10, 2017 to discuss solutions for proper records transfer.

### **Oversight and Stakeholder Engagement**

- Conducted the quarterly 2020 Census Program Management Review on April 21, 2017.

## **Status of Major Tests**

## 2017 Census Test

### **Description**

Pursuant to 2020 Census Program Memorandum 2016.21<sup>1</sup>, the 2017 Census Test has been rescoped in response to the uncertainty surrounding the final FY2017 appropriations. As a result, the 2020 Census Program will not conduct the FY2017 field test operations in the Standing Rock Reservation in North Dakota and South Dakota and the Colville Reservation and Off-Reservation Trust Land in Washington State. Field tests planned for three areas in Puerto Rico were also cancelled from FY 2017. These field test sites will be considered for potential inclusion in the 2018 End-to-End Census Test.

Based on the revised scope, the 2017 Census Test remains a nationwide self-response test. It will still allow the Census Bureau to test the feasibility of collecting tribal enrollment information. Areas with relatively high populations of American Indians and Alaska Natives will be oversampled as a mechanism for testing potential tribal enrollment questions.

### **Key Activities**

- Publish Presubmission Federal Register Notice – July 26, 2016 (published on August 8, 2016)
- Deliver Office of Management and Budget (OMB) Paperwork Reduction Act Clearance Package – October 28, 2016 (delayed due to adjustment in scope affecting the contents of the package) (completed on November 17, 2016)
- Receive OMB Paperwork Reduction Act Approval – December 30, 2016 (approval date January 19, 2017)\*
- Internet Self-Response application (ISR) and Census Questionnaire Assistance (CQA) become available in the production environment, permitting the collection of response data – March 20, 2017 (started March 20, 2017)
- Conduct Census Questionnaire Assistance (CQA) – March 20, 2017 – May 12, 2017 (started March 20, 2017)
- Conduct Self-Response, Including Non-ID Processing – March 20, 2017 – May 12, 2017 (started March 20, 2017)
- Census Day – April 1, 2017 (The public facing systems needed to conduct the 2017 Census Test were in production on March 20, 2017, and the five mailings went out on time beginning with the initial contact on March 20, 2017, and concluding with the final contact on April 20, 2017.)

### **Summary of Activities (Last 30 Days)**

#### *Program Management*

Census Day occurred on April 1, 2017. As of April 30, 2017, the Internet First response rate was 41.16 percent and the Internet Choice response rate was 30.90 percent. ID Phone Participation was 2.06 percent and Non-ID Phone Participation was 0.09 percent.

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<sup>1</sup> This Memorandum can be found at: [https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series/2020-memo-2016\\_21.html](https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series/2020-memo-2016_21.html)

\*To mitigate this delay we implemented forms design and printing contingencies that put us back on schedule for this Test.

## **2017 Census Test**

### **Summary of Activities (Last 30 Days) cont'd**

#### *Systems Engineering and Integration*

1. Enterprise Censuses and Surveys Enabling-Operational Control System (ECaSE-OCS) created the workload for Mailing #5 on April 13, 2017.
2. Systems began supporting Content Reinterview on April 10, 2017.
3. Systems continued supporting Census Questionnaire Assistance (CQA), internet, and paper self-response.
4. Enterprise Censuses and Surveys Enabling (ECaSE) 8.1.8 Build 3 deployed to production on April 7, 2017.
5. The Enterprise Testing Team (ETT) continued testing remaining threads in the Independent Test Environment (ITE) and completed a failover test.

#### *Census Questionnaire Assistance*

1. Completed training for both English-speaking and bilingual Customer Service Representatives (CSRs) on April 14, 2017.
2. Conducted Lessons Learned sessions for CSRs at both call centers. (Call volumes peaked around the mailout of materials; the final mailout occurred on April 20, 2017. The last week of April was the prime opportunity to obtain Lessons Learned with CSRs before reducing staffing levels based on call volume.)
3. A few brief outages occurred at the two call centers in Jacksonville, Florida and Sandy, Utah, during production operations. There were three outages: one affected both call centers, the other two, Sandy only. The first outage lasted 7.5 hours in Jacksonville and 13.5 hours in Sandy. The second outage affected only "cleared calls" in Sandy; it is not clear how long it took to resolve the issue. The third outage lasted 2.5 hours. The first outage was caused by General Dynamics Information Technology (GDIT) Cloud Services hardware failures. The second outage was caused because Session Initiation Protocol (SIP) server was in distress and eventually disconnected. The root cause of the third outage has not yet been determined; an explanation is forthcoming.

#### *Internet Self-Response*

1. Continued development support for testing of the 2017 Census Test application. (A few production patches were needed after the go live date in March.)
2. Continued Internet Data Collection.
3. Completed deployment of self-response mailings on April 20, 2017.
4. Prioritized backlog for Internet Self-Response application development.
5. Conducted lessons learned. (There was no need to wait until the Test was completed to conduct this activity as most of the lessons learned process was aimed at stakeholders who participate more in the planning and testing phase of the operation, as opposed to the execution or wrap up phase.)
6. The Internet Self-Response operation focused on 2017 Census Test support mainly from March 20-April 7, 2017. After April 7, 2017, Test support reduced to ad hoc requests for assistance with production issues as they arose.

## **2017 Census Test**

### **Summary of Activities (Last 30 Days) cont'd**

#### *Non-ID Processing*

1. Conducted training for Clerical Non-ID Processing for 2017 Census Test.
2. Began the Clerical Non-ID Processing Operation on April 18, 2017. As of April 30, 2017, 92 records were received in Manual Matching and Geocoding with 50 records completed (22 uncodable/unable to match or geocode; 19 matched with a geocode; 6 matched and obtained a geocode; 1 matched without a geocode; and 2 unmatched but obtained a geocode) and 35 in the quality control process. There were 78 records received in Office Based Address Verification with 76 records completed (62 existence and location verified and 14 linked to an existing Master Address File Unit).

#### *Forms Printing and Distribution*

Completed all contacts (1 through 5) (internet invitations, questionnaires, reminder letters and postcards) for the 2017 Census Test on schedule, from March 20, 2017 through April 20, 2017.

### **Look Ahead (Next 60 Days)**

#### *Program Management*

Final Operational Readiness Review (ORR) approval for Release C Part 2 (Self-Response, CQA, and Mailing) are planned to occur in May 2017. (The ORR for Release C: Self-Response for the 2017 Census Test was contingently approved on March 20, 2017. The ORR approval board approved the release of system functionality that affected the public on March 20, 2017. Internal system functionality for Release C was approved on a flow basis as the various functions were tested and approved through the Test Readiness Review and Production Readiness Review. Many of those system test threads were for functionality not needed until later in the data collection process. ORR approval is not final until all components have been tested and approved for a release. The final system test thread is expected to pass in May.)

#### *Systems Engineering and Integration*

1. Continue managing Release C (Self-Response) production activities on a thread-by-thread basis. (See Table 2 for SE&I Release Functionality Key)
2. Enterprise Testing Team (ETT) will continue to test all remaining threads in the Independent Test Environment (ITE).
3. Continue to work with ETT, Unified Tracking System (UTS), and Enterprise Censuses and Surveys Enabling (ECaSE) to review output testing results.

#### *Internet Self-Response*

Conclude data collection in support of the 2017 Census Test on May 12, 2017.

#### *Decennial Service Center*

Close out test activities for the Decennial Service Center that will not be rolled into the 2018 End-to-End Census Test.



## **2017 Census Test**

### **Look Ahead (Next 60 Days) cont'd**

#### *Non-ID Processing*

1. Conclude Automated and Clerical Non-ID Processing following the completion of data capture for paper self-response, which is currently scheduled for May 31, 2017.
2. Begin analysis of results from the 2017 Census Test.

#### *Forms, Printing and Distribution*

Closeout print contract for the 2017 Census Test.

#### *Census Questionnaire Assistance*

1. Conclude call center operations on May 12, 2017.
2. Produce Lessons Learned report.

## **2018 End-to-End Census Test**

### **Description**

The 2018 End-to-End Census Test objectives are to:

- Test and validate 2020 Census operations, procedures, systems, and field infrastructure together to ensure proper integration and conformance with all requirements.
- Produce a prototype of geographic and data products.

The Test includes aspects of all four key innovation areas of the 2020 Census Program: optimizing self-response, reengineering field operations, utilizing administrative records, and reengineering address canvassing. Additionally, the Test will introduce enterprise systems that were not used in earlier census tests, expand systems already in use, and enhance systems using cloud technologies.

The 2018 End-to-End Census Test will take place in portions of three areas: Pierce County, Washington; Providence County, Rhode Island; and Bluefield-Beckley-Oak Hill, West Virginia.

Analysis will continue about the cost and feasibility of expanding the 2018 End-to-End Census Test scope to take in the Puerto Rico test site from the descope 2017 Puerto Rico Census Test, and the two tribal test sites that were descope from the 2017 Census Test, for a total of three sites.

### **Key Activities**

Publish Paperwork Reduction Act Presubmission Federal Register Notice for Early Operations – October 7, 2016 (published on October 19, 2016)

Conduct In-Office Address Canvassing – November 16, 2016 – February 2, 2017 (started on September 26, 2016; completed on January 27, 2017)

Open Regional Census Centers (RCC) – January 3, 2017 (completed on January 3, 2017)

Deliver Office of Management and Budget (OMB) (Paperwork Reduction Act) Clearance Package for Early Operations – January 24, 2017 (published January 10, 2017)

Receive OMB (Paperwork Reduction Act) Approval for Early Operations – March 27, 2017 (completed on March 23, 2017)

Publish Presubmission Federal Register Notice for Peak Operations – March 1, 2017 (completed on March 29, 2017)

Begin Recruiting for Early Operations – March 10, 2017 (started on March 31, 2017)

Open Area Census Offices (ACO) – March 31, 2017 (delayed; Late Spring 2017 opening anticipated for Providence; dates for other ACOs to be determined.)

Finalize Partnership Staff Selection – August 18, 2017

Deliver OMB (Paperwork Reduction Act) Clearance Package for Peak Operations – July 21, 2017

Receive OMB (Paperwork Reduction Act) Approval for Peak Operations – September 12, 2017

Conduct In-Field Address Canvassing – August 14 – September 29, 2017

Conduct In-Field Address Canvassing Listing Quality Control (QC) – August 21 – October 6, 2017

Conduct Group Quarters (GQ) Advance Contact – February 5 – March 9, 2018

Conduct Census Questionnaire Assistance (CQA) – March 19 – August 7, 2018

Conduct Self-Response, Including Non-ID Processing – March 19 – August 7, 2018

Conduct GQ Enumeration – March 28 – June 6, 2018 (Including SBE)

Census Day – April 1, 2018

## **2018 End-to-End Census Test**

### **Key Activities Cont'd**

Conduct Early Nonresponse Followup (NRFU) – April 3 – May 9, 2018

Conduct Nonresponse Followup (NRFU) – May 10 – July 24, 2018

Conduct NRFU Reinterview – April 4 – July 31, 2018

Conduct Update Enumerate (UE) – April 16 – May 16, 2018

Conduct UE Reinterview – April 19 – July 17, 2018

Conduct UE Listing QC – April 23 – May 23, 2018

Conduct GQ Enumeration, Late Production – June 11 – August 31, 2018

Publish Prototype P.L. 94-171 Data and Support Products – no later than April 1, 2019

### **Summary of Activities (Last 30 Days)**

#### *Decennial Logistics Management*

1. Accepted space for the Seattle Area Census Office (ACO) on April 4, 2017; build out completed April 5, 2017.
2. Notice to Proceed (NTP) for Providence ACO was signed on April 18, 2017.

#### *Decennial Service Center*

Completed requirements for Census Field Staff (CFS) support line on April 17, 2017.

#### *Recruiting, Training, and Onboarding*

1. Released the draft 3PV Fingerprinting Performance Work Statement (PWS) to internal stakeholders for review on April 20, 2017.
2. Presented the United States Postal Service (USPS) Fingerprinting and Onboarding proposed Interagency Agreement (IAA) to 2020 Census Portfolio Management Governing Board (PMGB) on April 26, 2017 for a decision on how to proceed. At the meeting, the PMGB approved moving forward with 2018 End-to-End Census Test fingerprinting activities.

#### *Program Management*

1. Held Operational Readiness Review Kick-off meeting for Training Release 1: Address Canvassing on April 12, 2017.
2. Completed the draft of the OMB Paperwork Reduction Act Clearance Package for Peak Operations on April 28, 2017.

#### *Internet Self-Response*

Continued review of 2018 End-to-End Census Test and 2020 Census requirements.

#### *Content and Forms Design*

1. Completed initial internal stakeholder review of paper questionnaires on April 25, 2017.
2. Began developing mail material and field items for 2018 End-to-End Census Test.

#### *Non-ID Processing*

1. Completed review and update of business process model and capability requirements for Non-ID Processing for the 2018 End-to-End Census Test on April 14, 2017.
2. Coordinated with Internet Self-Response Integrated Project Team (ISR IPT) to update detailed requirements for address collection for Non-ID responses as well as output data for analysis.

## **2018 End-to-End Census Test**

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Integrated Partnership and Communications*

1. The Integrated Partnership and Communications operation change request was approved on April 18, 2017. The purpose of the change request was to descope the operation from the 2018 End-to-End Census Test with implementation of a minimum of required activities to support other operations.
2. Finalized office position recruitment materials.

#### *Nonresponse Followup*

1. Updated the Nonresponse Followup Detailed Operational Plan to include the integration of Update Enumerate Followup within the Nonresponse Followup operation, and updated contact strategies for nonresponding addresses on April 19, 2017.
2. Prepared draft of presentation slides for the Systems Requirements Review scheduled for May 1, 2017.
3. Developed a draft of a letter for multiunit building managers and an information sheet to be mailed to building managers prior to the 2018 End-to-End Census Test.
4. Began development of the 2018 End-to-End Census Test Nonresponse Followup Study Plan.
5. Continued development of the Enterprise Censuses and Surveys Enabling (ECaSE) Enumeration instruments.

#### *Update Enumerate*

1. Updated the questionnaire ID and barcode printing specification on April 13, 2017.
2. Completed the initial draft of the requirements for the Unified Tracking System (UTS) reports.

#### *Geographic Programs*

Completed the 2018 End-to-End Census Test site specification benchmark on April 14, 2017, in preparation for product creation. The Geography Division and Decennial Information Technology Division created a benchmark or edited copy of the MAF/TIGER database that includes only the counties covering the test sites along with adjacent or fringe counties surrounding the test site. This benchmark is used to create products such as the Master Address File Extract (MAFX) and Geographic Reference File-Codes (GRF-C).

#### *Group Quarters*

1. Presented high-level Group Quarters risks to the 2020 Census Risk Review Board.
2. Started and finished initial versions of paper documents (i.e., individual census questionnaire, mailing envelopes, brochures, etc.) needed to field the 2018 Group Quarters operation.

#### *Systems Engineering and Integration*

1. Continued to complete key milestones in support of production readiness - Training Release 1 (Address Canvassing onboarding and training) and Release A (In-Field Address Canvassing) systems.
2. Continued successfully testing threads and interfaces for Release A and Training Release 1.

## **2018 End-to-End Census Test**

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Systems Engineering and Integration cont'd*

3. On-boarded some of the March 8, 2017, Test Readiness Review (TRR) Systems into the Technical Integrator (TI) Cloud environment, and will use the TI software development and information technology process, including Enterprise Censuses and Surveys Enabling (ECaSE). This activity started in April, and will continue until Address Canvassing goes live later this summer.
4. Began tracking the completion of activities needed for integration testing readiness with the current focus on Release C, Recruiting Release 2 and Training Release 2 on April 12, 2017.
5. Deployed Recruiting Release 1 systems to Production to support early recruiting activities.

#### *Redistricting Data Program*

Incorporated comments and edits from Geography Division and Decennial Information Technology Division branch chiefs and staff on geographic support product customer requirements for the 2018 Census End-to-End Census Test Data Products throughout April; requirements submitted for signatures to baseline on April 27, 2017.

#### *United States Postal Service Coordination Team*

1. Initiated planning for special projects (interactive kiosks, informed delivery, and marketing community engagement signage) for the 2018 End-to-End Census Test to help increase response rates within communities.
2. Received approval from 2020 Portfolio Management Governing Board on April 26, 2017 to explore potential United States Postal Service onboarding assistance during the 2018 End-to-End Census Test.

### **Look Ahead (Next 60 Days)**

#### *Program Management*

1. Update OMB Paperwork Reduction Act Clearance Package for Peak Operations to incorporate feedback from Census Bureau review. Additionally, develop responses to public comments received after 60-day comment period on the Presubmission, which closes on May 30, 2017, and incorporate into the full package.
2. Complete drafting 2018 End-to-End Census Test Plan.
3. Hold Operational Readiness Review (ORR) for Training Release 1: Address Canvassing.
4. Hold ORR Kick-off meeting for Release A: Address Canvassing, and for Recruiting Release 2: Field Enumeration.

#### *Decennial Service Center*

Finalize Interactive Voice Response (IVR) updates on May 1, 2017.

#### *Decennial Logistics Management*

1. Deliver administrative and payroll kits, bulk office supply kits, and furniture to Providence, Rhode Island Area Census Office (ACO) in May 2017.
2. Providence ACO space acceptance is projected to occur on May 1, 2017, with opening projected for mid-May 2017. Space acceptance for Beckley ACO is projected to occur by May 31, 2017, with opening date TBD.

## **2018 End-to-End Census Test**

### **Look Ahead (Next 60 Days) Cont'd**

#### *Nonresponse Followup*

1. Develop requirements for Enterprise Censuses and Surveys-Operational Control System (ECaSE-OCS) Field and ECaSE-OCS Survey for Nonresponse Followup (NRFU) operations.
2. Finalize specifications for Program Management reports.
3. Finalize specifications for Field Verification cases.
4. Develop business rules for the Census Operational Control System for Reengineered Field Operations (MOJO) optimizer, which oversees assignment of Nonresponse Followup addresses to enumerators.
5. Develop first draft of table shells for Program Management reports.

#### *Content and Forms Design*

Design, review, and finalize content and design of mail materials and field items.

#### *Internet Self-Response*

1. Conduct working group sessions to finalize all Enterprise Censuses and Surveys Enabling-Internet Self-Response (ECaSE-ISR) requirements.
2. Finalize self-response mail strategy content and operational deployment strategy.
3. Complete schedule updates for 2018 End-to-End Census Test Integrated Master Schedule.
4. Continue 2018 End-to-End Census Test Internet Self-Response application development.
5. Complete all requirements review for 2018 End-to-End Census Test and 2020 Census.

#### *Non-ID Processing*

1. Begin initial draft of 2018 Assessment Study Plan for Non-ID operation.
2. Deliver final Detailed Performance Report requirements to Performance Measurement Branch.

#### *Recruiting, Training, and Onboarding*

1. Recruit field staff for Address Canvassing operation in the 2018 End-to-End Census Test. Planned completion is June 2, 2017.
2. Conduct Area Census Office (ACO) Management Overview Training on May 9-11, 2017, as management positions will be filled by that point.
3. Select Regional Census Center/Area Census Office positions by May 2017.
4. Learning Management System (LMS) Go-Live for the 2018 End-to-End Census Test Address Canvassing Training is scheduled for June 2017.

#### *Language Services*

1. Complete Language Support Plan.
2. Finalize translations for mail materials and field items.

#### *Update Enumerate*

1. Deliver the Update Enumerate Field Alert Requirements.
2. Update the Integrated Master Schedule with new activities for and related to the Listing and Mapping Application (LiMA).

## **2018 End-to-End Census Test**

### **Look Ahead (Next 60 Days) Cont'd**

#### *Geographic Operations*

Create and deliver the Master Address File Extract (MAFX), Geographic Reference File-Codes (GRF-C), Geographic Reference File-Names (GRF-N), Imagery, and the Spatial Data Map Service by May 12, 2017.

#### *Group Quarters*

1. Update Business Process Models and capability requirements to reflect recent operational design changes.
2. Finalize the following plans:
  - a. 2018 End-to-End Census Test Group Quarters Advance Contact Study Plan.
  - b. 2018 End-to-End Census Test Group Quarters Service-Based Enumeration Study Plan.
  - c. 2018 End-to-End Census Test Group Quarters Enumeration Study Plan.
3. Obtain decision on enterprise systems solutions supporting (1) Group Quarters Advance Contact and (2) Group Quarters Linking.
4. Finalize Group Quarter eResponse data collection template.

#### *Systems Engineering and Integration*

1. Hold daily checkpoint meetings with Technical Integrator (TI) Test Team to status progress on testing of Training Release 1 and Release A systems.
2. Continue project-level development and test activities in preparation for a May 10, 2017 Test Readiness Review (TRR) 2 for Training Release 1 (Address Canvassing onboarding and training) and Release A (In-Field Address Canvassing) systems and for TRR1 for Recruiting Release 2 (Field Enumeration Recruiting).
3. Work to achieve Authority to Operate (ATOs) in support of future releases.
4. Hold Production Readiness Review for Training Release 1 on May 26, 2017.

#### *Address Canvassing*

Participate in the Technical Readiness Review for Release A on May 10, 2017.

#### *IT Infrastructure*

Obtain an Authority to Operate (ATO) for the TI cloud infrastructure by May 10, 2017.

#### *Integrated Partnership and Communications*

Begin and complete development of recruiting material for Nonresponse Followup.

#### *United States Postal Service Coordination Team*

1. Conduct learning exchange sessions as well as product demonstrations (Overview of the 2017 Census Test Mail Strategy and Informed Delivery demo) to increase understanding and awareness between both agencies to see how we can collaborate on 2020 Census activities, as well as brainstorm on possible tools and approaches to deploy for the 2018 End-to-End Census Test and the 2020 Census.
2. Present to the 2020 Portfolio Management Governing Board regarding potential United States Postal Service onboarding assistance during the 2018 End-to-End Census Test.

## **Address Canvassing Test**

### **Description**

The Address Canvassing Test focused on the following: (1) measuring the effectiveness of In-Office Address Canvassing through In-Field Address Canvassing; (2) measuring the effectiveness of In-Field Address Canvassing; and (3) understanding the implications of moving from Assignment Area (a grouping of blocks) to Basic Collection Unit (BCU), which encompasses the characteristics of both collection blocks and assignment areas.

The Address Canvassing Test included In-Office Address Canvassing and In-Field Address Canvassing. The In-Office Address Canvassing included the Interactive Review and Active Block Resolution activities. The In-Field Address Canvassing activity is full block listing of all living quarters. Both In-Office Address Canvassing and In-Field Address Canvassing is based on the same input data (i.e., Master Address File (MAF) and Topologically Integrated Geographic Encoding and Referencing (TIGER)) and will be completed in time to compare the results from both activities with each other.

This Test occurred in two sites, Buncombe County, North Carolina, and St. Louis, Missouri. The sites include a variety of living quarters and address types (i.e., city-style addresses, non-city-style addresses, and location descriptions). Census field representatives were hired to conduct In-Field Address Canvassing. All management and oversight activities occurred out of the regional offices.

### **Key Activities**

Publish Presubmission Federal Register Notice – March 16, 2016 (published/completed on March 23, 2016)

Deliver Office of Management and Budget (OMB) (Paperwork Reduction Act) Clearance Package – June 21, 2016 (completed on July 5, 2016)

Receive OMB (Paperwork Reduction Act) Approval – September 6, 2016 (completed on August 29, 2016)

Begin Field Management Training – Week of August 29, 2016 (completed on September 2, 2016)

Conduct In-Office Address Canvassing Data Collection for test areas – September 9, 2016 (began August 23, 2016) (Completed for Test sites within this timeframe.)

Begin Field Supervisor Training – September 12, 2016 (began on September 12, 2016; completed September 16, 2016)

Begin Field Representative Training – September 26, 2016 (began on September 26, 2016; completed on September 30, 2016.)

Conduct In-Field Address Canvassing Data Collection – September 30, 2016 – November 15, 2016 (began on September 30, 2016, completed on November 10, 2016)

Conduct In-Field Address Canvassing Re-Listing Data Collection – November 16, 2016 – December 16, 2016 (began on October 21, 2016 and completed November 23, 2016)

Release Address Canvassing Test Analysis Report – (Expected completion of April 29, 2017 delayed until August 31, 2017 due to resource limitations)

### **Summary of Activities (Last 30 Days)**

Completed final draft of the Address Canvassing Assessment and Analysis report on April 27, 2017 for critical review, governance review, and final executive-level clearance.



## **2016 Census Test**

### **Description**

The 2016 Census Test was an operational study of both self-response and nonresponse followup procedures. The self-response objectives included testing the provision of language support to limited English proficient populations, testing the ability to reach demographically diverse populations, and refining Real-Time Non-ID Processing (RTNP) methods.

The nonresponse followup objectives included the following strategies: the use of administrative records and third-party data to reduce cost while maintaining quality; reengineering field operations using models to reduce travel time and determine the best time for the enumerator to contact the respondent; and streamlining the staffing and supervisory structure.

Systems testing included the use of a Census Bureau server-based infrastructure<sup>1</sup> to support Self-Response and Non-ID Processing (for those responses where the Census ID is not used), and to measure the systems' abilities to manage a significant number of concurrent users. Also, this Test utilized Census Enterprise Data Collection and Processing (CEDCaP) systems (Control and Response Data System and the Multimode Operational Control System) for the first time in support of response processing operations. Data collection for the 2016 Census Test began in March 2016 and continued through June 2016 in Los Angeles County, California, and Harris County, Texas.

### **Key Activities**

2016 Site Selection Announcement – June 26, 2015 (completed)

Publish Presubmission Federal Register Notice – August 4, 2015 (completed/published)

Deliver Office of Management and Budget (OMB) (Paperwork Reduction Act) Clearance Package – October 28, 2015 (delivered November 19, 2015)

Receive OMB (Paperwork Reduction Act) Approval – January 12, 2016 (approval received January 14, 2016)

Open Regional Census Centers (RCCs) – September 24, 2015 (completed/opened RCCs)

Conduct Recruiting – October 2015 – April 2016 (began on November 2, 2015; completed March 18, 2016)

Open Area Operations Support Centers (AOSCs) – January 2016 (Houston, Texas, AOSC opened January 25, 2016; Los Angeles, California, AOSC opened February 3, 2016 (originally scheduled for February 1, 2016) (completed)

Conduct 2016 Census Test – March-June 2016 (completed)

Begin Self-Response Data Collection – March 2016 (began March 21, 2016)

Mail Initial Invitation Letters and Questionnaires – March 2016 (completed March 21, 2016)

Launch Internet Self-Response Data Collection Application – March 2016 (completed March 21, 2016)

Mail first reminder letter or postcard to housing units – March 2016 (completed March 24, 2016)

Census Day – April 1, 2016 (completed)

Conduct Field Staff Training – April – May 2016 (began April 11, 2016; completed May 21, 2016)

Conduct Coverage Reinterview – May – June 2016 (began May 2, 2016; completed June 26, 2016)

<sup>1</sup> On March 9, 2016, Decennial Management determined that the Cloud implementation of Internet data collection system (Primus) and RTNP would not be used for the 2016 Census Test. Primus/RTNP will instead use a server-based solution.

## **2016 Census Test**

### **Key Activities cont'd**

Conduct Nonresponse Followup (NRFU) – May – June 2016 (began May 12, 2016; completed June 30, 2016)

Conduct NRFU Reinterview – May – June 2016 (began May 13, 2016; completed June 30, 2016)

Complete Research and Analysis Reports – Completion is delayed beyond Quarter 2 of Fiscal Year 2017 due to resource limitations.

### **Summary of Activities (last 30 Days)**

#### *Nonresponse Followup*

Incorporated feedback from the Decennial Research Objectives and Methods (DROM) working group into a new version of the 2016 Census Test Nonresponse Followup Operational Assessment Report.

### **Look Ahead (next 60 Days)**

Finalize the draft report of the 2016 Census Test Coverage Reinterview Analysis and send to the Decennial Research Objectives and Methods (DROM) Group for review.

### **Status of Current Activities**

Analysis reports are undergoing final executive-level clearance. Once complete, the reports will be issued, on a flow basis, through the 2020 Census Memorandum Series.

#### *Reports under Development/Review*

- 2016 Census Test Analysis – Non-ID Processing Report
  - Draft in Non-ID IPT review through February 2017.
  - Presented to the DROM Group on March 16, 2017.
  - Report was still being revised on April 30, 2017, addressing comments from DROM and being prepared for Portfolio Management Governing Board (PMGB) review.
- 2016 Census Test Report – Overview (Expected completion on Dec. 29, 2017.)
- 2016 Census Test Coverage Reinterview Analysis Report (Expected Completion was on April 30, 2017, but has been delayed until May 31, 2017 due to resource limitations.)
- 2016 Group Quarters Electronic Response Independent Test Analysis Report (Detailed report will not be produced due to resource issues. A high-level summary document will be issued in the Decennial Statistical Studies Division Memorandum Series.)
- 2016 Census Test Optimizing Self-Response, Language Services, Race and Ethnicity, and Relationship Report (Expected completion on August 30, 2017)
- 2016 Census Test: Non-ID Recollect Analysis Report (Expected completion on July 13, 2017)
- 2016 Census Test Administrative Record Usage Report (Expected completion on July 7, 2017)
- 2016 Census Test: In-Office Address Canvassing Report (This report will not be produced due to resource issues. Release of any relevant results will be done via Decennial Statistical Studies Division's Memorandum Series.)

## **2016 Census Test**

### **Status of Current Activities cont'd**

- 2016 Census Test – Evaluating the Decennial Census Call-in Option: Results from an Interviewer Debriefing on the 2016 Census Test Report (Expected completion on July 27, 2017)
- 2016 Service-Based Enumeration Census Test Analysis Report (Expected completion on July 6, 2017)

## **2015 Optimizing Self-Response Test**

### **Description**

The 2015 Optimizing Self-Response Test was critical for assessing ways to maximize self-response for the 2020 Census. The scope of the Test included: testing self-response modes (including Internet, paper, and telephone); contact strategies for our preregistration tool, “Notify Me”; use of digital, targeted advertising methods to increase awareness and engagement, promoting the “Notify Me” and Non-ID response options, and encouraging participation in the Test; real-time processing of Non-ID cases; and optimization of the Internet data collection application for mobile devices. Data collection for the 2015 Optimizing Self-Response Test took place from February through May 2015 in the Savannah, Georgia, designated media market area (including several counties in South Carolina).

### **Status of Current Activities**

#### *Reports under Development/Review*

- 2015 Census Test of Digital Advertising and Other Communications in the Savannah Designed Market Area (DMA) (formerly known as, Analysis of the 2015 Census Test of Advertising and Partnerships) (Expected Completion May 31, 2017)

#### *Reports Issued*

- Analysis of Non-ID Processing Results for the 2015 Optimizing Self-Response Test and the 2015 Census Test (Completed on January 10, 2017)
- Non-ID Response Validation for 2015 Optimizing Self-Response Test (Completed on February 9, 2017)

## 2015 National Content Test

### **Description**

The 2015 National Content Test (NCT) used a nationally representative sample of approximately 1.2 million households to evaluate and compare different census content and to test different contact strategies for optimizing self-response. The scope of the Test included: content testing for questions on race and Hispanic origin (e.g., combining race and Hispanic origin into a single question vs. using separate questions, introduction of a Middle Eastern/North African category), relationship (introduction of same-sex relationship categories), and within-household coverage (streamlined approach for ensuring accurate within-household coverage); continued testing of self-response modes and contact strategies (timing of invitations/notifications), targeted mail strategies to address the differences in Internet access based on demographics and regions, and optimization of the Internet data collection application for mobile devices. The Test also included a reinterview (of a subsample of respondents) to further assess the accuracy and reliability of the question alternatives for race, Hispanic origin, and within-household coverage. The 2015 NCT used a nationally representative sample to test various versions of questions that may appear on the 2020 Census and future American Community Survey questionnaires. Data collection for the 2015 NCT took place from August through December 2015.

### **Status of Current Activities**

The final analysis report is being revised for governance review and final executive-level clearance. Once cleared, the report will be issued through the 2020 Census Memorandum Series. Preliminary results on race and ethnicity research were rolled out to internal and external stakeholders in fall 2016.

### ***Reports under Development/Review***

- Coverage (Expected Completion was on April 30, 2017, but has been delayed until May 31, 2017 due to resource limitations.)

### ***Reports Issued***

- Evaluating the Decennial Census Call-In Option: Results from an interviewer debriefing of the 2015 National Content Test (formerly known as, 2015 National Content Test Telephone Questionnaire Assistance Centurion Instrument Interviewer Debriefing) (Completed October 5, 2016)
- The study plan for the race and ethnicity analysis was issued in the 2020 Census Memorandum Series on November 4, 2016.
- The 2015 National Content Test Optimizing Self-Response was issued in the 2020 Census Memorandum Series on November 22, 2016.
- Relationship Question Experiment Analysis Report completed February 10, 2017
- Race and Ethnicity Analysis Report was issued in the 2020 Census Memorandum Series on February 28, 2017. An extended Tip Sheet was provided to the media publicizing this release.
- Analysis of Non-ID Processing Results was completed on March 17, 2017.

# Status of Major 2020 Census Operations

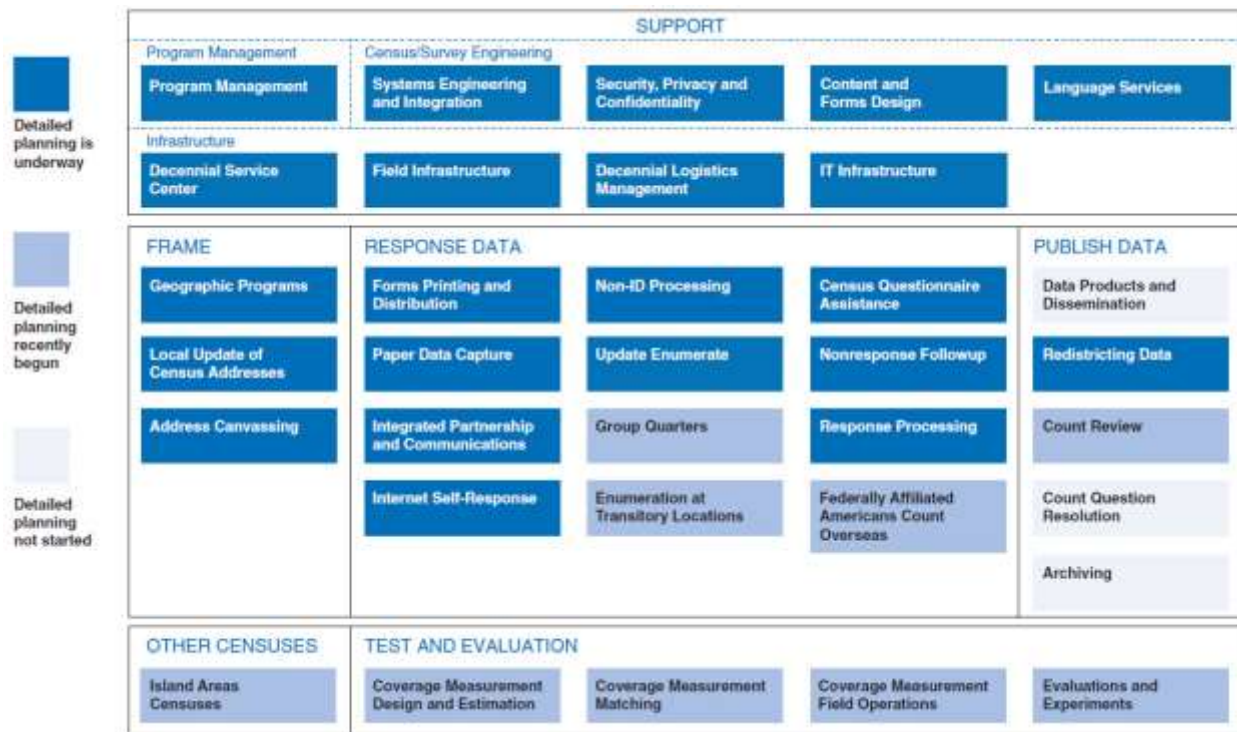
The 2020 Census includes 34 operations that are organized into eight major areas that correspond with the Census Bureau standard Work Breakdown Structure (WBS). The term operation refers to both support and business functions.

The status of these operations is reported on the following pages, which are organized by major area. Please note, only operations that are underway are discussed on the following pages.

Appendix A describes all 34 operations as defined in the 2020 Census Operational Plan 2.0 issued on October 28, 2016.

Completed or planned activities specifically supporting past or current Tests are reported on the relevant Test page (pages 5 – 21). Otherwise, they are reported on the relevant 2020 Census Operations page (pages 22 – 33).

**Figure 1: Operational Overview by WBS**



## Census/Survey Engineering

### Description

Four operations support the Census/Survey Engineering area of the 2020 Census: Systems Engineering and Integration (SE&I); Security, Privacy, and Confidentiality; Content and Forms Design; and Language Services. For the description of these operations, please see Appendix A.

**Table 1: SE&I Review Descriptions**

Review	Description
<b>Critical Business Proposal Review (CBR)</b>	Review of initial high-level architecture to ensure inclusion of appropriate systems to implement the desired subset of the 34 operations.
<b>Project Baseline Review (PBR)</b>	Review of program baselines. Schedule, organizational structure, Risk, etc.
<b>Systems Requirements Review (SRR)</b>	Joint review of PLBR/CAP requirements by engineering and operations.
<b>Critical Design Review (CDR)</b>	Review of high-level architecture and detailed business processes that define the subset of operations, interfaces, etc. Includes allocation of requirements to systems and the defined releases.
<b>Test Readiness Review (TRR)</b>	Ensures appropriate test objectives, methods procedures, scope and environments. Assesses readiness of systems to begin independent Program-Level testing. Marks the beginning of testing by the Program Test Team.
<b>Production Readiness Review (PRR)</b>	Assessment of test results to ensure systems are ready for operations testing.
<b>Operational Readiness Review (ORR)</b>	Assessment of operational testing to ensure full operation is ready to go-live.

**Table 2: SE&I Release Functionality Key**

Release	Functionality
<b>Release A</b>	In-Field Address Canvassing
<b>Release B</b>	Coverage Measurement – Independent Listing
<b>Release C</b>	Self-Response
<b>Release D</b>	Field Enumeration
<b>Release E</b>	Tabulation/Dissemination
<b>Release F</b>	RESERVED
<b>Release G</b>	Geographic Programs / Local Update of Census Addresses (LUCA)
<b>Release H</b>	RESERVED
<b>Release I</b>	In-Office Address Canvassing
<b>Release J</b>	RESERVED
<b>Release K</b>	Coverage Measurement – Initial Housing Unit Followup, Person Interview
<b>Release L</b>	Coverage Measurement – Person Interview Matching
<b>Release M</b>	Coverage Measurement – Person Followup
<b>Release N</b>	Coverage Measurement – Final Housing Unit Followup
<b>Release O</b>	Coverage Measurement – Reports & Release Findings
<b>Release P</b>	Partnership Activities
<b>Recruiting Release 1</b>	Address Canvassing, Coverage Measurement – Independent Listing, and Initial Housing Unit Followup Recruiting
<b>Recruiting Release 2</b>	Field Enumeration, Coverage Measurement – Person Interview, Person Followup, and Final Housing Unit Followup Recruiting
<b>Training Release 1</b>	Address Canvassing Training
<b>Training Release 2</b>	Field Enumeration Training
<b>Coverage Measurement Sample Release</b>	Initial Sample for Coverage Measurement

## **Census/Survey Engineering**

### **Summary of Activities (Last 30 Days)**

Received Fraud Detection Implementation Plan with comments addressed April 24, 2017.

Received drafts for comment of the Process and Product Quality Assurance (QA) Plan and the Schedule Management Plan from the Technical Integrator.

Received the final delivery of Internal Demand Models from the Technical Integrator. Currently have demand models for all external and internal interfaces.

### ***Content and Forms Design***

Began gathering requirements for 2020 Census questionnaires. This entails compiling a list of the questionnaires that each operation intends to request for the 2020 Census, which will be updated monthly.

### **Look Ahead (Next 60 Days)**

#### ***Systems Engineering and Integration***

Conduct the 2020 Systems Requirement Review (SRR) and Critical Design Review (CDR).

#### ***Security, Privacy, and Confidentiality***

1. Review the Local Update of Census Addresses (LUCA) Program Site Inspection documentation.
2. Anticipate final approval on the Security, Privacy and Confidentiality Detailed Operational Plan.



## Frame

### **Description**

Three operations support the frame area of the 2020 Census: Geographic Programs, Local Update of Census Addresses (LUCA), and Address Canvassing. For the description of these operations, please see Appendix A.

### **Summary of Activities (Last 30 Days)**

#### *Geographic Programs*

1. Continued Participant Statistical Area Program (PSAP) Internal Review processing at the National Processing Center.
2. Continued to receive telephone calls from partners in support of LUCA and the Boundary Annexation Survey (BAS).
3. Uploaded Area Census Office (ACO) data to the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) Database and created the Proposed ACO National Map.
4. Uploaded housing unit counts to Basic Collection Units (BCUs) in preparation for the Batch National Type of Enumeration Area (TEA) Delineation.

#### *Local Update of Census Addresses (LUCA)*

The LUCA Integrated Project Team's (IPT) LUCA Promotional Outreach events are ongoing. These Outreach events will finish in the October/November 2017 timeframe. LUCA staff at the National Processing Center will be receiving Contact Information Update Forms from reminders mailed to partners and the staff will be updating the Geographic Program Participant (GPP) database and LUCA Production Control System (PCS) with updated information.

Other major LUCA accomplishments this month included:

1. National Processing Center Staff completed mailing of advance notice reminders on April 21, 2017 to stateside and Puerto Rico partners.
2. Opened the LUCA Geographic Programs Support Desk.
3. Posted address block count lists on the LUCA Website.
4. Preparing to create the LUCA materials and process the returns.
5. Refining processes to match LUCA records to the MAF/TIGER System.
6. Developing training and user materials for partners.

#### *Address Canvassing*

The 2020 Census In-Office Address Canvassing Interactive Review production continues, and is meeting the expected production goals. The clerks have completed 10,347,534 blocks during Interactive Review from the beginning of production in September 2015 through April 30, 2017. One hundred eight staff are working Interactive Review (IR) in production and 12 are performing Quality Control (QC). This process classifies the blocks into three categories:

- Passive = blocks that do not show signs of change and need no further review at this time.
- Active = blocks that show signs of change and need to move to the next phase of In-Office Address Canvassing for further review.
- On Hold = blocks that need new imagery to do the Interactive Review.

## Frame

### **Summary of Activities (Last 30 Days) Cont'd**

As of April 30, 2017, 71.3 percent of the blocks were classified as Passive, 16.9 percent were classified as Active, and 1.2 percent were classified as On-Hold. On March 14, 2017, 1,095,893 **hold blocks** were triggered for IR re-review. Triggered blocks which are still being worked through IR will be included in the "Total Blocks Reviewed" number above, but not be included in any of the Totals (Active, Passive, Hold) until they are re-reviewed. The triggered blocks accounted for 10.6 percent of the total completed.

Completed Final Draft of the FY 16 MAF Coverage Study Analysis Report on April 20, 2017.

### *United States Postal Service Coordination Team*

1. Established priorities and key deadlines for the Human Resources/Field, Optimizing Self-Response, Address Spatial/Administrative Records, Partnerships, and Modeling Interagency working groups.
2. Presented high-level objectives of the Census Bureau and United States Postal Service coordination team partnership and responsibilities at the 2020 Program Management Review on April 21, 2017. The high-level objectives fall into four categories: Mailing and Delivery Services, Data Products and Services, Workforce Services, and Cross-cutting activities.

### **Look Ahead (Next 60 Days)**

#### *Geographic Programs*

1. Develop the Federal Register Notice for the 2020 Census Participant Statistical Area Program.
2. Complete Batch Type of Enumeration Area (TEA) Delineation on May 5, 2017.
3. Conduct Interactive National TEA Delineation from May 8, 2017 to June 30, 2017.
4. Baseline Tabulation Block, Collection Geography, Participant Statistical Areas Program (PSAP), and Geographic Support Desk (GPSD) schedules.

#### *Local Update of Census Addresses*

1. Conduct LUCA Promotional Workshops. These workshops are being given by Census Bureau staff to potential LUCA participants, including active, functioning tribal, state, and local governments.
2. Continue to define LUCA address list products requirements.
3. Edit and update LUCA invitation/registration letters, forms, and guides for the July 2017 Invitation/Registration mailing.

## Frame

### **Look Ahead (Next 60 Days) Cont'd**

#### *United States Postal Service Coordination Team*

1. Release Project Plan and Milestone Schedule for the Postal Carriers as Census Enumerators pilot project.
2. Release first draft of an enterprise Memorandum of Understanding that documents the major components of the Census Bureau-United States Postal Service Partnership.
3. Finalize an Interface Control Document that defines requirements for an automated process to track the status of census questionnaires mailed with Intelligent Mail Barcode technology.
4. Conduct learning exchange sessions as well as product demonstrations (Overview of the 2017 Census Test Mail Strategy and Informed Delivery demo) to increase understanding and awareness, as well as brainstorm on possible tools and approaches to deploy for the 2018 End-to-End Census Test and the 2020 Census.

## Response Data

### **Description**

Twelve operations support the response data area of the 2020 Census: Forms Printing and Distribution, Paper Data Capture, Integrated Partnership and Communications, Internet Self-Response, Non-ID Processing, Update Enumerate, Group Quarters, Enumeration at Transitory Locations, Census Questionnaire Assistance, Nonresponse Followup, Response Processing, and Federally Affiliated Americans Count Overseas. For the description of these operations, please see Appendix A.

### **Summary of Activities (Last 30 Days)**

#### *Paper Data Capture*

1. Engaged in Technical Directive (TD) workshop with Team TI (Technical Integrator) on April 13, 2017 to clarify TI's draft technical and cost proposal to TD013 for Paper Data Capture support.
2. Engaged in discussions with the IT Directorate, Integrated Computer Assisted Data Entry System (iCADE), National Processing Center (NPC) and Team TI regarding Roles and Responsibilities for Paper Data Capture Centers (PDCCs).

#### *Internet Self-Response*

Continued review of 2018 End-to-End Census Test and 2020 Census requirements.

#### *Integrated Partnership and Communications (IPC) Program*

1. Team Y&R presented an overview of the National Integrated Communications plan to all Assistant Division Chiefs and other selected Decennial executive-level staff on April 12, 2017.
2. Team Y&R continued providing Census Barriers, Attitudes, and Motivators Survey (CBAMS) inputs and Office of Management and Budget (OMB) requirements.

#### *Update Enumerate (UE)*

1. Updated the Business Process Models and capability requirements for Update Enumerate.
2. Updated the Business Process Models for Remote Alaska.

#### *Group Quarters (GQ)*

1. Presented the anticipated Group Quarters population, workload, and cost for the 2018 End-to-End Census Test and 2020 Census.
2. Prepared initial draft of the 2020 Group Quarters Detailed Operational Plan – due for public release in June 2018.

#### *Enumeration at Transitory Locations (ETL)*

Submitted the 2020 Census Business Process Model and capability requirements for baselining.

#### *Federally Affiliated Americans Count Overseas (FAACO)*

Submitted the 2020 Census Business Process Model and capability requirements for Federally Affiliated Americans Count Overseas (FAACO) for baselining.

## **Response Data**

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Response Processing*

Sent final draft of the Response Processing Detailed Operational Plan for executive review.

### **Look Ahead (Next 60 Days)**

#### *Integrated Partnership and Communications*

1. Receive executive approval of the 2020 Census Partnership Engagement Plan; the Integrated Communications Contractor (Team Y&R) will deliver version 1.0 of the National Communications Plan on June 2, 2017 to the Program Management Office.
2. Meet with the National Advisory Committee Integrated Partnership and Communications Working Group to discuss highlights from the 2020 Census National Partnership Plan.
3. Executive Program Management Review (PMR) for the Integrated Partnership and Communications Program will occur on May 4, 2017.

#### *Paper Data Capture*

Finalize and award Technical Directive (TD) 013 for Paper Data Capture support.

#### *Internet Self-Response*

1. Complete all requirements review for 2018 End-to-End Census Test and 2020 Census.
2. Complete Detailed Operational Plan.

#### *Update Enumerate*

1. Update Business Process Models and capability requirements to reflect recent operational design changes.
2. Begin development of the 2020 Census integrated master schedule for Update Enumerate.

#### *Group Quarters*

1. Complete first draft of 2020 Census GQ Detailed Operational Plan (DOP).
2. Complete the initial draft of 2016 Census Test eResponse Data Independent Test data analysis report.

#### *Nonresponse Followup*

1. Baseline the 2020 Census Nonresponse Followup (NRFU) Detailed Operational Plan.
2. Develop mitigation plans for 2020 Census NRFU project level risks in advance of mid-June meeting. Review and approval will occur after the meeting.
3. Develop plans and procedures for User Acceptance Tests of the Enterprise Censuses and Surveys Enabling (ECaSE) systems.

#### *Response Processing*

Finalize the Response Processing Detailed Operational Plan with updates from executive review.

## **Publish Data**

### **Description**

Five operations support the publish data area of the 2020 Census: Data Products and Dissemination, Redistricting Data Program, Count Review, Count Question Resolution, and Archiving. For the description of these operations, please see Appendix A.

### **Summary of Activities (Last 30 Days)**

The Redistricting Data Program (RDP) provided an update briefing to the Executive Steering Committee on April 4, 2017, and to the Program Management Governing Board on April 19, 2017. These briefings covered all phases of the program and highlighted changes and challenges to the program.

The RDP continued processing the 214 counties with changes submitted so far. This refers to counties received in Block Boundary Suggestion Project verification where the states have indicated they would like modifications performed to the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) system. The RDP passed 145 counties to Geography Division for insertion into the MAF/TIGER system. In addition, the RDP has confirmed 831 counties as having no changes needed.

### *Archiving*

The Archiving Operation met with the National Archives and Records Administration's Information Technology (IT) representatives along with the Census Bureau's Records Administrators, and the Decennial Systems Architects on April 10, 2017 to discuss solutions for records transfer.

### **Look Ahead (Next 60 Days)**

#### *Redistricting Data Program*

Support the verification phase of the Block Boundary Suggestion Project.

#### *Archiving*

Submit draft 2020 Census Records Schedule to National Archives and Records Administration for initial review.

## Test and Evaluation

### **Description**

Four operations support the Test and Evaluation area of the 2020 Census: Coverage Measurement Design and Estimation, Coverage Measurement Matching, Coverage Measurement Field Operations, and Evaluations and Experiments. For the description of these operations, please see Appendix A.

### **Summary of Activities (Last 30 Days)**

*The Coverage Measurement Design and Estimation team:*

1. Prepared drafts of the slides for the May 1, 2017 System Readiness Review presentation to be made to Decennial Directorate management and stakeholders.
2. Resumed updating the Post Enumeration Survey (PES) Design and Estimation Business Process Model.

*The Coverage Measurement Matching team:*

1. Assessed the effort level required for redesign solution alternatives for the PES field data collection and computer and clerical matching activities.
2. Recommended redesign solutions and mini-tests for the 2020 PES, in preparation for the Critical Design Review (CDR) for the Executive Steering Committee (ESC) meeting scheduled for May 2, 2017.
3. Prepared drafts of the slides for the May 1, 2017 System Readiness Review presentation to be made to Decennial Directorate management and stakeholders.
4. Resumed updating PES Field and Matching Business Process Models.

*The Evaluations and Experiments team:*

The Decennial Research Objectives and Methods (DROM) working group reviewed the *2016 Census Test Optimizing Self-Response, Language Services, Race and Ethnicity, and Relationship Report*.

### **Look Ahead (Next 60 Days)**

*The Coverage Measurement Design and Estimation team* will develop initial drafts of study plans (which does not include DROM review) by May 1, 2017.

The team will resume work on the following activities. Work was stopped due to the Post Enumeration Survey being descope from the 2018 End-to-End Census Test and the associated systems. Consequently, the scope and design of the 2020 Census Post Enumeration Survey is being re-assessed. Work on these activities will resume once decisions are made regarding the systems that will be used to conduct the 2020 Census Post Enumeration Survey and the timeline to conduct operations.

1. Building an integrated master schedule for the 2020 PES Design and Estimation.
2. Updating 2020 PES Design and Estimation Business Process Models.
3. Updating PES Design and Estimation capability requirements.
4. Writing of High-Level Design Requirements.
5. Writing of operational study plans.

## Test and Evaluation

### **Look Ahead (Next 60 Days) Cont'd**

#### *Coverage Measurement Matching*

The team will resume work on the following activities:

1. Building an integrated master schedule for the 2020 PES Field and Matching operations, including additional activities for paper-based data collection for field follow-up activities, and determine any effects of the redesign on the PES milestones.
2. Updating PES Field and Matching Business Process Models.
3. Updating PES Field and Matching capability requirements.
4. Working with Coverage Measurement Design and Estimation Integrated Project Team on writing of High-Level Design Requirements.
5. Operational study plans.
6. PES field data collection and matching specifications and user stories.

*Evaluations and Experiments* team will:

1. Finalize content requirements and instructions for submitting 2020 Census evaluations and experiments to the Decennial Research Objective and Methods working group.
2. Finalize and implement the plan for soliciting 2020 Census evaluation and experiment proposals.
3. Baseline the 2020 Census Demographic Analysis project charter.
4. Assemble and submit a global schedule change request to ensure all 2018 End-to-End Census Test operations follow the standard activities for study plan and report development consistently.



## **Infrastructure**

### **Description**

Four operations support the infrastructure area of the 2020 Census: Decennial Service Center; Recruiting, Training and Onboarding; Decennial Logistics Management; and Information Technology (IT) Infrastructure. For the description of these operations, please see Appendix A.

### **Summary of Activities (Last 30 Days)**

#### *Decennial Logistics Management – Regional Census Centers (RCCs)*

1. Conducted Design Intent Drawings (DID) workshops in Chicago, Illinois and Dallas, Texas. The workshops were conducted with Census Regional and Headquarters staff, General Services Administration (GSA) Regional Staff, and the Lessor's representatives.
2. Negotiations took place between GSA and another Lessor for the Atlanta RCC lease award after initial space under consideration failed seismic review.
3. Lease amendment was executed for the New York RCC on April 28, 2017.
4. Lease was executed for the Atlanta RCC on April 28, 2017.

#### *Recruiting, Training, and Onboarding*

1. Transitioned Learning Management System and Third Party Vendor (3PV) Fingerprinting Solution Acquisition to the Census Schedule A Human Resources and Recruiting Payroll System (C-SHaRPS) team.
2. Released draft 3PV Fingerprinting Performance Work Statement (PWS) to internal stakeholders for review.
3. Presented United States Postal Service (USPS) Fingerprinting and Onboarding proposed Interagency Agreement (IAA) to 2020 Portfolio Management Governing Board (PMGB) on April 26, 2017 for decision on how to proceed. At the meeting, the PMGB approved moving forward with 2018 End-to-End Census Test fingerprinting activities.

### **Look Ahead (Next 60 Days)**

#### *Recruiting, Training, and Onboarding*

Configure Learning Management System (LMS) site for Administrative Training for Regional Census Center and Area Census Office staff.

## **Additional Updates**

## **Oversight & Stakeholder Engagement**

### **Description**

This section describes major activities related to Government Accountability Office (GAO) and Office of the Inspector General (OIG) audits (e.g., new audits, exit meetings for completed audits, issuance of draft and final reports, preparation of agency action plans); congressional hearings related to the 2020 Census; and presentations and working meetings with our advisory committees, the 2020 Census National Academy of Sciences Standing Committee on Reengineering Census Operations, and other external stakeholders.

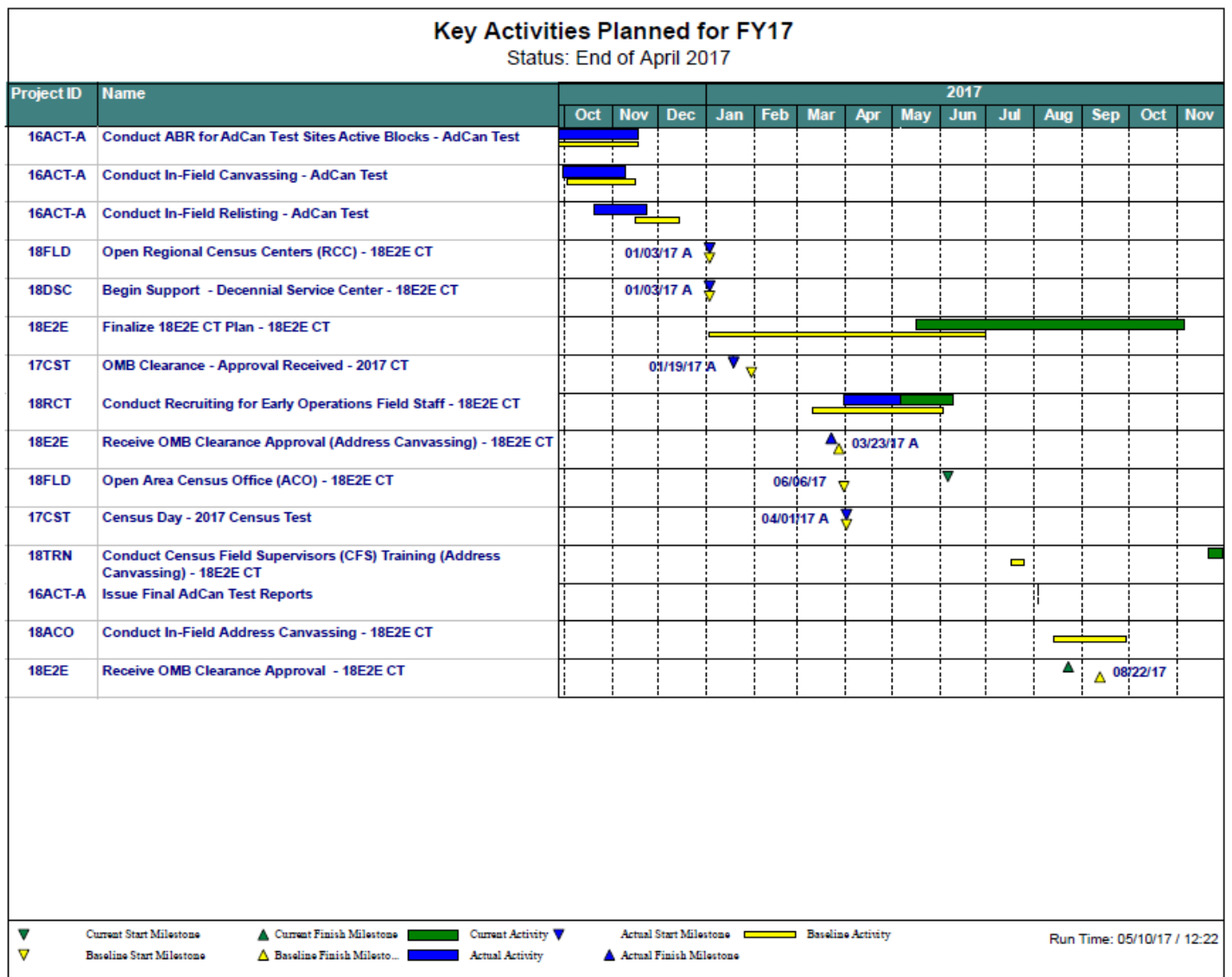
### **Summary of Activities (Last 30 Days)**

1. Participated in the State Data Center Annual Training Conference on April 3, 2017.
2. Census Bureau and Team Y&R participated in a meeting with the Children's Leadership Council (CLC) on April 13, 2017.
3. Conducted the quarterly 2020 Census Program Management Review on April 21, 2017.
4. Participated in the meetings of the Federal State Cooperative for Population Estimates on April 24 – 25, 2017.
5. Participated in the Population Association of America annual conference in Chicago, April 26 – 29, 2017.
6. Participated in the spring National Advisory Committee meetings on April 27 – 28, 2017.
7. Provided agency comments to OIG on April 28, 2017 on Draft Report about the 2016 Address Canvassing Test.
8. Local Update of Census Addresses (LUCA) conducted 110 promotional events in April.

### **Look Ahead (Next 60 Days)**

1. Complete Action plan in response to OIG final report on *2016 Census Test* by May 16, 2017.
2. Expect draft report from Government Accountability Office on Address Canvassing audit in May.
3. Participate in the Alabama State Data Center Annual Meeting in Montgomery, Alabama on May 18, 2017.
4. Participate in the Urban Institute's National Neighborhood Indicators Program meeting on May 19, 2017.
5. Participate in the Texas State Data Center Annual Meeting in Austin, Texas on May 25, 2017.
6. LUCA has well over 100 promotional events scheduled in May.

## Program Schedule Metrics Research & Testing



### Explanations for Project Start/Finish Delays

Activity 18E2E-10180: "Finalize 18E2E CT Plan – 18E2E CT"

Reason for Delay: The Plan will complete on time. This is starting later than planned, pending the draft of the 18E2E CT Plan (18E2E-10080).

Activity 18FLD-10160: "Open Area Census Office (ACO) – 18E2E CT"

Reason for Delay: For details see 18FLD-10190. "Open Seattle ACO" (Space was accepted on 4/4/17; Opening Date is TBD, Pending Mgmt Decision), 10390 "Open Beckley ACO" (Space acceptance projected 6/26/17; Open date is TBD, pending mgmt. decision), 10400 "Open Providence ACO" (Space acceptance projected 5/16/17. Office projected to open late-May).

Activity 18TRN-32680: "Conduct Census Field Supervisors (CFS) Training (Address Canvassing) – 18E2E CT"

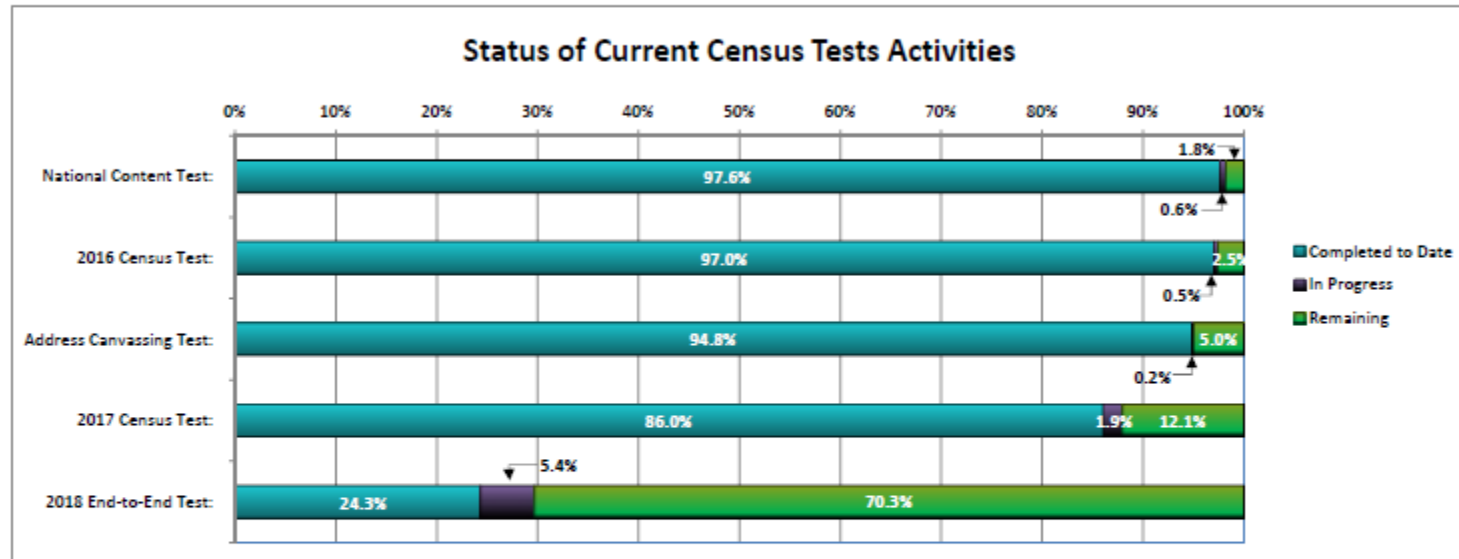
Reason for Delay: Activity will be on time. Acquisition Award is due to be received 6/1/17 and is delaying this task. CR P0349 has been submitted to re-work schedule flow to accommodate the delay and to bring this activity back on time.

Activity 18ACO-11000: "Conduct In-Field Address Canvassing –18E2E CT"

Reason for Delay: Activity will be on time. Acquisition Award is due to be received 6/1/17 and is delaying task currently. CR P0349 has been submitted to re-work schedule flow to accommodate the delay.

## Program Schedule Metrics Research & Testing

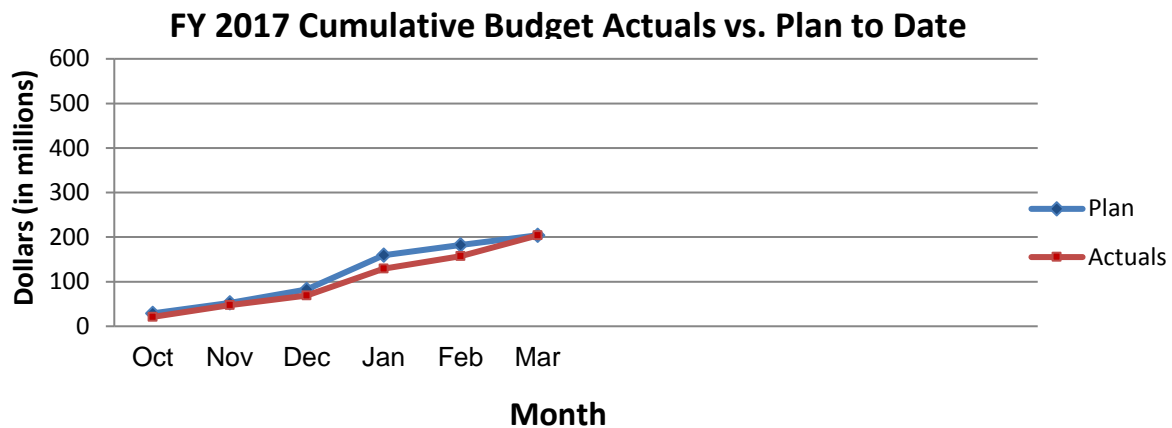
### Status of Census Tests through April 30, 2017



	Total Activities	Completed to Date	In Progress	Remaining
2015 National Content Test:	1181	1153	7	21
2016 Census Test:	1888	1831	9	48
Address Canvassing Test:	621	589	1	31
2017 Census Test:	1648	1418	31	199
2018 End-to-End Test:	6461	1571	348	4542

Processed on: 5-10-2017

## Program Budget/Costs as of March 31, 2017



Note: The total program plan is only for 6 months. We are under a Continuing Resolution (CR) through April 28, 2017.

	March Cum Plan	March Cum Actuals	March Cum Variance	% Variance
<b>GRAND TOTAL</b>	<b>\$204,145,086</b>	<b>\$203,815,097</b>	<b>\$329,989</b>	<b>0.2%</b>

At the end of March, the \$0.3M variance in the 2020 Census program consists of \$9.4M lower than expected costs in salaries and **\$9.1M** higher than expected costs in other objects. The salary variance is due to the following: 1) delays in filling vacancies due to the hiring freeze and CR, 2) inaccurate operating plan spreads due to changes in the scope of work, 3) delayed hiring because of changes resulting from the cancellation of the 2017 CCM activities (the Post Enumeration Survey, formerly Census Coverage Measurement, or CCM, was descoped from the 2018 End-to-End Census Test), and 4) charges for the Worker's Compensation were not obligated as planned. The other objects variance is due to the early commitment of contracts. The major project change in scope was the early commitment of the Technical Integration contract which supports the 2020 Census Program in ensuring the architectural integrity and interoperability of the 2020 Census Systems of Systems. There is no impact to the program as there is sufficient funding in later months in this investment area to cover this shortfall.

### Program Budget/Costs as of March 31, 2017

<b>R1 Program Management</b>	\$19,504,286	\$24,362,809	(\$4,858,523)	-24.9%
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The variance in this area consists of **\$1.2M** higher than expected costs in salaries and **\$3.7M** higher than expected costs in other objects. The majority of the other objects variance is due to 1) early commitment to extend the Schedule Management contract and 2) early commitment of the Technical Integrator contract for subject matter experts, advisory and program management support to establish and implement the new Geographic Programs Management Office (GPMO). There is no impact to the program as there is sufficient funding in the program to cover this shortfall. Operating plans decision was to commit the contract earlier than planned.

<b>R2 Census/Survey Engineering</b>	\$9,910,581	\$24,204,115	(\$14,293,534)	-144.2%
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The variance in this area consists of **\$0.1M** higher than expected costs in salaries and **\$14.2M** higher than expected costs in other objects. The salary variance is due to Content and Forms Design and Language work requiring more time than initially planned. The other objects variance is due to early commitment of the Technical Integration contract, which supports the 2020 Census Program in ensuring the architectural integrity and interoperability of the 2020 Census System of Systems (SOS). There is no impact to the program as there is sufficient funding in later months in this investment area to cover this shortfall.

<b>R3 Frame</b>	\$29,297,358	\$23,543,999	\$5,753,359	19.6%
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The variance in this area consists of \$3.8M lower than expected costs in salaries and \$2.0M lower than expected costs in other objects. The salary variance is due to delays in filling vacancies. Additionally, due to change in the scope of work in the Address Canvassing project, the NPC funds were spread across five months instead of 12 months. (This change in scope refers to the fact that Active Block Resolution was cancelled in February, which resulted in a decrease to In-Office Address Canvassing work for March-October, affecting approximately one-half of the staff.) The majority of the other objects variance is due to the delays in obligating the following: 1) a contract supporting the MAF/TIGER database, 2) changes in the scope of work delayed printing and postage for the Local Update of Census Addresses (LUCA) operations. There is no impact to the program as we expect these obligations to occur in the third quarter.

### Program Budget/Costs as of March 31, 2017

<b>R4 Response Data</b>	\$47,866,015	\$51,936,217	(\$4,070,202)	-8.5%
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The variance in this area consists of \$1.3M higher than expected costs in salaries and \$2.8M higher than expected costs in other objects. The other objects variance is due to the authorized spending of the Unified Tracking System (UTS) contract. There is no impact to the program as there is sufficient funding in the program to cover this shortfall. Operating plans decision was to authorize the spending of the UTS contract as if not funded, it would result in tests and production not being completed.

<b>R5 Published Data</b>	\$9,526,292	\$7,321,232	\$2,205,060	23.1%
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The variance in this area consists of \$0.2M lower than expected costs in salaries and \$2.0M lower than expected costs in other objects. The salary variance is due to delays in filling vacancies. The other objects variance is due to the delays in obligating a contract vehicle to assist in the implementation of the architecture, development, and configuration of the CEDSCI Program. Also, there were delays in purchasing equipment and data storage for the new Custom Tabulation project. There is no impact to the program as we expect these obligations to occur in the third quarter.

<b>R6 Test and Evaluation</b>	\$22,506,986	\$15,298,762	\$7,208,224	32.0%
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The variance in this area consists of \$4.3M lower than expected costs in salaries and \$2.9M lower than expected costs in other objects. The salary variance is due to the following: 1) delays in filling vacancies due to the hiring freeze and CR, 2) delayed hiring because of changes resulting from the cancellation of the 2017 CCM activities (The Post Enumeration Survey was descope from the 2018 End-to-End Census Test, therefore, hiring National Processing Center management and analysts for the Post Enumeration Survey has been delayed; however, we still will plan to hire them asap to begin lengthy training required.), and 3) due to the change in the scope of work in the Test Planning, Project Management and Support project, NPC and the Telephone Center funds were spread incorrectly. The other objects variance is due to delays in obligating the following: 1) the Coverage Measurement Data Collection QC (SMaRCS) contract in support of the 2018 Test, and 2) due to the re-scoping of the 2018 End-to-End Census Test, there were delays in procuring the office space, rent, equipment, postage and supplies for the End-to-End sites. There has also been minimal spending in travel, training, and supplies due to the CR. There is no impact to the program as these obligations will occur in the third quarter.



### Program Budget/Costs as of March 31, 2017

<b>R7 Infrastructure</b>	\$65,533,568	\$57,147,963	\$8,385,605	12.8%
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The variance in this area consists of \$3.7M lower than expected costs in salaries and \$4.7 lower than expected costs in other objects. The salary variance is due to delays in filling vacancies, and the charges for the Worker's Compensation were not obligated as planned. The majority of the other objects variance is due to delays in obligating the following: 1) IT Infrastructure support contract, 2) a contract to provide subject matter experts and technical guidance to establish and implement a revised Census Schedule A Human Resources and Recruiting Payroll System (CSHaRPS), and 3) Rent/RCC Puerto Rico buildout have not occurred due to changes in program requirements. There has also been minimal spending in travel, training, and supplies due to the CR. There is no impact to the program as we expect these obligations to occur in the third quarter.

**Notes:**

1) Explanations are required for frameworks with variances that are equal to or greater than +/- 10% OR greater than +/- \$500k.

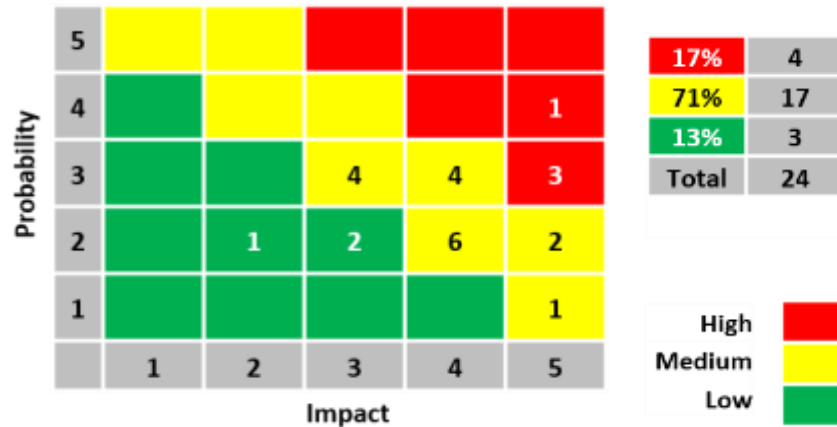
2) We report budget variance data as currently as possible. When the Monthly Status Report is prepared, we have not yet received budget variance data from the current month, so data from the previous month is what we include.

## Program-Level Life Cycle Risks

	Risk ID	Name	Level	Prior Level	Trend	Prob	Imp
1	LC-040	Funding Requests Not Realized	H	H	↔	4	5
2	LC-033	Administrative Records and Third-Party Data - External Factors	H	H	↔	3	5
3	LC-039	Public Perception of Ability to Safeguard Response Data	H	H	↔	3	5
4	LC-041	Cyber Security Incidents	H	H	↔	3	5
5	LC-010	Enterprise IT Solutions	M	M	↔	3	4
6	LC-036	Operations and Systems Integration	M	M	↔	3	4
7	LC-038	Testing of Field Operations Quality Control Procedures	M	M	↔	3	4
8	LC-042	Late Operational Design Changes	M	M	↔	3	4
9	LC-011	Acquisition Lead Time	M	M	↔	3	3
10	LC-043	Cloud Implementation	M	M	↔	3	3
11	LC-044	Systems Scalability	M	M	↔	3	3
12	LC-045	Major Disasters	M	M	↔	3	3
13	LC-028	Internet Data Collection	M	M	↔	2	5
14	LC-034	Administrative Records and Third-Party Data - Access and Constraints	M	M	↔	2	5
15	LC-001	Cost Model Projections	M	M	↔	2	4
16	LC-012	External Support	M	M	↔	2	4
17	LC-021	Schedule Impacts	M	M	↔	2	4
18	LC-022	Technological Innovations Surfacing After Design Is Finalized	M	M	↔	2	4
19	LC-027	IT Security Controls	M	M	↔	2	4
20	LC-029	Contract Management	M	M	↔	2	4
21	LC-004	ACS Funding and Integration	M	M	↔	1	5
22	LC-016	Policy Impacts	L	L	↔	2	3
23	LC-023	Inconclusive Data	L	L	↔	2	3
24	LC-018	Trade Agreement Act Compliance	L	L	↔	2	2

Risk Trend
↑
Improving
↔
No Change
↓
Worsening

### Program-Level Life Cycle Risks



The following changes were made in April:

1. A new program issue was created from LC-032\_Reengineering Address Canvassing Operation. The issue is titled Additional Workload for the Address Canvassing Operation. Description: For the 2010 Census, a near-100 percent Address Canvassing operation in the field was used to update and validate a complete and accurate inventory of addresses, which forms the basis for the census enumeration. For the 2020 Census, a variety of “in-office” techniques are used to update and validate the completeness of the address inventory. These “in-office” techniques were expected to reduce the areas requiring field work while achieving an equal or greater quality result, thereby reducing costs and improving quality for the overall 2020 Census Program. The established threshold of addresses for update and validation through “in-office” techniques is 75 percent, with a plan to send about 25 percent of addresses for field canvassing, as cited in the 2020 Census Operational Plan and the Detailed Operational Plan for Address Canvassing. Two major components of the reengineered Address Canvassing operation, known as Active Block Resolution (ABR) and the Master Address File Coverage Study (MAFCS) have been suspended for the remainder of FY2017. Active Block Resolution (ABR) uses a variety of sources to perform MAF updates in areas of change identified by the Interactive Review (IR) process and provides high-quality frame information to the Address Canvassing Operation. The MAF Coverage Study (MAFCS) was designed to 1) update the MAF on a continuous basis by field listing 20,000 blocks each year; 2) provide estimates of MAF coverage on a national and subnational basis; and 3) validate the In-Office Address Canvassing methodology.

Impact: The suspension of the ABR and MAFCS projects will result in an increased universe for field canvassing for 2020 Address Canvassing. We now estimate a 5 percentage point increase in the field workload for in-office address canvassing. This change will result in cost increases and increased potential for schedule adjustments associated with the additional field listing. In-Field Address Canvassing will need to scale up its listing operations by January 1, 2019 when field offices are scheduled to open. This change also has the potential to affect quality control (QC) work, as the scale and nature of sampling are likely to be affected.

2. A second new program issue was created from LC-003\_Meeting Cost Goal. The information for the issue is still being determined.

# **Appendix**

## Appendix A: 2020 Census Operations and Purpose

Operations	Purpose
<b>Census/Survey Engineering</b>	
<b>Systems Engineering and Integration</b>	The Systems Engineering and Integration operation (SEI) manages the delivery of a system of systems that meets 2020 Census Program business and capability requirements.
<b>Security, Privacy, and Confidentiality</b>	The Security, Privacy, and Confidentiality (SPC) operation ensures that all operations and systems used in the 2020 Census adhere to the following policies and regulations: <ul style="list-style-type: none"> <li>• Appropriate systems and data security.</li> <li>• Respondent and employee privacy and confidentiality.</li> </ul>
<b>Content and Forms Design</b>	The Content and Forms Design (CFD) operation performs the following activities: <ul style="list-style-type: none"> <li>• Identify and finalize content and design of questionnaires and associated nonquestionnaire materials such as letters, postcards, brochures, envelopes, flashcards, and field materials.</li> <li>• Ensure consistency across data collection modes and operations, including (but not limited to) questionnaire content, help text, mailing materials, and field materials.</li> <li>• Provide the optimal design and content of the questionnaires to encourage high response rates.</li> </ul>
<b>Language Services</b>	The Language Services (LNG) operation performs the following activities: <ul style="list-style-type: none"> <li>• Assess and support language needs of non-English speaking populations.</li> <li>• Determine the number of non-English languages and level of support for the 2020 Census.</li> <li>• Optimize the non-English content of questionnaires and associated nonquestionnaire materials across data collection modes and operations.</li> <li>• Ensure cultural relevancy and meaningful translation of 2020 Census questionnaires and associated nonquestionnaire materials.</li> </ul>
<b>Frame</b>	
<b>Geographic Programs</b>	The Geographic Programs (GEOP) operation provides the geographic foundation in support of the 2020 Census data collection and tabulation activities within the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System. The MAF/TIGER System (software applications and databases) serves as the national repository for all of the spatial, geographic, and residential address data needed for census and survey data collection, data tabulation, data dissemination, geocoding services, and map production. Components of this operation include: <ul style="list-style-type: none"> <li>• Geographic Delineations.</li> <li>• Geographic Partnership Programs.</li> <li>• Geographic Data Processing.</li> </ul>
<b>Local Update of Census Addresses</b>	The Local Update of Census Addresses (LUCA) operation provides an opportunity for tribal, federal, state, and local governments to review and improve the address lists and maps used to conduct the 2020 Census. This operation is required by the Census Address List Improvement Act of 1994 (Public Law (P.L.) 103-430).
<b>Address Canvassing</b>	The Address Canvassing (ADC) operation serves two purposes: <ul style="list-style-type: none"> <li>• Deliver a complete and accurate address list and spatial database for enumeration.</li> <li>• Determine the type and address characteristics for each living quarter.</li> </ul>

Operations	Purpose
Response Data	
<b>Forms Printing and Distribution</b>	<p>The Forms Printing and Distribution (FPD) operation prints and distributes the following paper forms to support the 2020 Census mailing strategy and enumeration of the population:</p> <ul style="list-style-type: none"> <li>• Internet invitation letters.</li> <li>• Reminder cards or letters or both.</li> <li>• Questionnaire mailing packages.</li> <li>• Materials for other special operations, as required.</li> </ul> <p><i>Other materials required to support field operations are handled in the Decennial Logistics Management or Field Infrastructure operations.</i></p>
<b>Paper Data Capture</b>	<p>The Paper Data Capture (PDC) operation captures and converts data from 2020 Census paper questionnaires. This operation includes:</p> <ul style="list-style-type: none"> <li>• Mail receipt.</li> <li>• Document preparation.</li> <li>• Scanning.</li> <li>• Optical Character Recognition.</li> <li>• Optical Mark Recognition.</li> <li>• Key From Image.</li> <li>• Editing and checkout.</li> </ul>
<b>Integrated Partnership and Communications</b>	<p>The Integrated Partnership and Communications (IPC) operation communicates the importance of participating in the 2020 Census to the entire population of the 50 states, the District of Columbia, and Puerto Rico to:</p> <ul style="list-style-type: none"> <li>• Support Field recruitment efforts for a diverse, qualified Census workforce.</li> <li>• Engage and motivate people to self-respond, preferably via the Internet.</li> <li>• Raise and keep awareness high throughout the entire 2020 Census to encourage response.</li> <li>• Effectively support dissemination of Census data to stakeholders and the public.</li> </ul>
<b>Internet Self-Response</b>	<p>The Internet Self-Response (ISR) operation performs the following functions:</p> <ul style="list-style-type: none"> <li>• Maximize online response to the 2020 Census via contact strategies and improved access for respondents.</li> <li>• Collect response data via the Internet to reduce paper and NRFU.</li> <li>▪ Provide Paper Questionnaires to respondents who request paper materials only.</li> </ul>
<b>Non-ID Processing</b>	<p>The Non-ID Processing (NID) operation is focused on making it easy for people to respond anytime, anywhere to increase self-response rates. The operation accomplishes this by:</p> <ul style="list-style-type: none"> <li>• Providing response options that do not require a unique Census ID.</li> <li>• Maximizing real-time matching of non-ID respondent addresses to the Census living quarters address inventory.</li> <li>• Accurately assigning nonmatching addresses to census blocks.</li> <li>• Conducting validation of all non-ID responses.</li> </ul>

Operations	Purpose
<b>Update Enumerate</b>	<p>The Update Enumerate (UE) operation is designated to occur in geographic areas where the Census Bureau has identified unique challenges. UE combines listing methodologies with enumeration methodologies. In the UE operation, field staff update the address and feature data and enumerate respondents in person. The primary functions of UE include:</p> <ul style="list-style-type: none"> <li>• Verifying and updating the address list and feature data for tabulation of the 2020 Census.</li> <li>• Determining the type and address characteristics for each living quarter.</li> <li>• Enumerating respondents at housing units within the UE geographic areas for which a 2020 Census response was not received.</li> </ul> <p>UE can occur in geographic areas that:</p> <ul style="list-style-type: none"> <li>• Do not have city-style addresses.</li> <li>• Do not receive mail through city-style addresses.</li> <li>• Receive mail at post office boxes.</li> <li>• Have been affected by natural disasters.</li> <li>• Have high concentrations of seasonally vacant housing.</li> <li>• Have unique challenges associated with accessibility.</li> </ul>
<b>Group Quarters</b>	<p>The 2020 Census Group Quarters (GQ) Operation will:</p> <ul style="list-style-type: none"> <li>• Enumerate people living or staying in group quarters.</li> <li>• Provide an opportunity for people experiencing homelessness and receiving service at a service-based location, such as a soup kitchen, to be counted in the Census.</li> </ul>
<b>Enumeration at Transitory Locations</b>	<p>The Enumeration at Transitory Locations (ETL) operation enumerates individuals in occupied units at transitory locations who do not have a Usual Home Elsewhere. Transitory locations include recreational vehicle parks, campgrounds, racetracks, circuses, carnivals, marinas, hotels, and motels.</p>
<b>Census Questionnaire Assistance</b>	<p>The Census Questionnaire Assistance (CQA) operation has two primary functions:</p> <ul style="list-style-type: none"> <li>• Provide questionnaire assistance for respondents by answering questions about specific items on the Census form or other frequently asked questions about the Census;</li> </ul> <p>² Tier 1: Provide telephone assistance via an Interactive Voice Response (IVR).</p> <p>² Tier 2: Provide real-time assistance over the telephone or other electronic channels (Web chat and email) via CQA agents.</p> <ul style="list-style-type: none"> <li>• Provide an option for respondents to complete a Census interview over the telephone.</li> </ul>
<b>Nonresponse Followup</b>	<p>The Nonresponse Followup (NRFU) Operation serves two purposes:</p> <ul style="list-style-type: none"> <li>• Determines housing unit status for nonresponding addresses that do not self-respond to the 2020 Census.</li> <li>• Enumerates households that are determined to have a housing unit status of occupied.</li> </ul>
<b>Response Processing</b>	<p>The Response Processing Operation (RPO) supports the three major components of the 2020 Census: predata collection activities, data collection activities, and post data collection activities.</p> <p>Specifically, the operation supports the following:</p> <ul style="list-style-type: none"> <li>• Create and distribute the initial 2020 Census enumeration universe of living quarters.</li> <li>• Assign the specific enumeration strategy for each living quarter based on case status and associated paradata.</li> <li>• Create and distribute workload files required for enumeration operations.</li> <li>• Track case enumeration status.</li> <li>• Run post data collection processing actions in preparation for producing the final 2020 Census results.</li> <li>• Check for invalid or potential fraudulent returns.</li> </ul>

Operations	Purpose
<b>Federally Affiliated Americans Count Overseas</b>	The Federally Affiliated Americans Count Overseas (FAA) operation obtains counts by home state of U.S. military and federal civilian employees stationed or deployed overseas and their dependents living with them.
<b>Publish Data</b>	
<b>Data Products and Dissemination</b>	<p>The Data Products and Dissemination (DPD) operation performs three primary functions:</p> <ul style="list-style-type: none"> <li>• Prepare and deliver the 2020 Census apportionment data for the President of the United States to provide to Congress by December 31, 2020.</li> <li>• Tabulate 2020 Census data products for use by the states for redistricting.</li> <li>• Tabulate and disseminate 2020 Census data for use by the public.</li> </ul>
<b>Redistricting Data Program</b>	<p>The purpose of the Redistricting Data Program (RDP) is to provide to each state the legally required P.L. 94-171 redistricting data tabulations by the mandated deadline of 1 year from Census.</p> <p>Day: April 1, 2021.</p>
<b>Count Review</b>	<p>The Count Review (CRO) operation enhances the accuracy of the 2020 Census through remediating potential gaps in coverage by:</p> <ul style="list-style-type: none"> <li>• Implementing an efficient and equitable process to identify missing housing units.</li> <li>• Identifying and correcting missing or geographically misallocated large group quarters and their population.</li> <li>• Positioning remaining count issues for a smooth transition to the CQR operation.</li> </ul>
<b>Count Question Resolution</b>	The Count Question Resolution (CQR) operation provides a mechanism for governmental units to challenge their official 2020 Census results.
<b>Archiving</b>	<p>The Archiving (ARC) operation performs the following functions:</p> <ul style="list-style-type: none"> <li>• Coordinates storage of the materials and data and provides records deemed permanent, including files containing the individual responses to the 2020 Census, to National Archives and Records Administration (NARA).</li> <li>• Provides similar files to the NPC to use as source materials to conduct the Age Search Service.</li> </ul>
<b>Other Censuses</b>	
<b>Island Areas Censuses</b>	The purpose of the Island Areas Censuses operation is to enumerate all residents of American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands; process and tabulate the collected data; and disseminate data products to the public.
<b>Test and Evaluation</b>	
<b>Coverage Measurement Design and Estimation</b>	The Coverage Measurement Design and Estimation (CMDE) operation develops the survey design and sample for the postenumeration survey for the 2020 Census. It also produces estimates of census coverage based on a postenumeration survey.
<b>Coverage Measurement Matching</b>	The Coverage Measurement Matching (CMM) operation identifies matches and nonmatches between the 2020 Census and the Coverage Measurement Survey, for both housing units and people, including computer and clerical components.
<b>Coverage Measurement Field Operations</b>	The Coverage Measurement Field Operations (CMFO) collects person and housing unit information (independent from 2020 Census operations) for the sample of Coverage Measurement Survey housing units. Coverage Measurement (CM) collects the same data as the 2020 Census for both housing units and persons. Additional information is collected by CM to help us understand census coverage and to detect erroneous enumerations.



Operations	Purpose
<b>Evaluations and Experiments</b>	<p>Evaluations and Experiments (EAE) document how well the 2020 Census was conducted; evaluations analyze, interpret, and synthesize the effectiveness of census components and their impact on data quality or coverage or both. Experiments identify potential designs of early 2030 Census life-cycle research and testing; experiments are quantitative or qualitative studies that must occur during a decennial census in order to have meaningful results to inform planning of future decennial censuses. In general, experiments involve response comparisons between tests, new or modified methods, or procedures against 2020 Census production methods or procedures.</p> <p>The EAE operation performs the following functions:</p> <ul style="list-style-type: none"> <li>• Measures success of critical 2020 Census operations and processes.</li> <li>• Formulates a 2020 Census experimental program that will further refine 2030 Census operational design options.</li> <li>• Contributes to the formulation of the 2030 Census Research and Testing phase objectives.</li> <li>• Develops a transition plan and appropriate organizational structures to establish 2030 Census life cycle planning.</li> <li>• Initiates other early planning activities for the 2030 Census, including the monitoring of policy concerns and technological, societal, and public cooperation trends.</li> <li>• Produces an independent assessment of coverage via Demographic Analysis.</li> </ul>
Infrastructure	
<b>Decennial Service Center</b>	The Decennial Service Center (DSC) will support 2020 Census field operations and handle all service requests initiated by field staff.
<b>Recruiting, Training, and Onboarding</b>	<p>The Field Infrastructure (FLDI) operation performs the following functions:</p> <ul style="list-style-type: none"> <li>• Coordinates space acquisition for, and lease management of, the RCC and Area Census Offices.</li> <li>• Provides the administrative infrastructure for data collection covering the 50 states, the District of Columbia, and Puerto Rico including: <ul style="list-style-type: none"> <li>◦ Recruiting.</li> <li>◦ Hiring and onboarding.</li> <li>◦ Personnel and payroll administration.</li> <li>◦ Training.</li> <li>◦ Partnership support.</li> <li>◦ Management and supervision.</li> <li>◦ Clerical support.</li> <li>◦ Materials supply.</li> <li>◦ Printing and plotting.</li> </ul> </li> </ul>
<b>Decennial Logistics Management</b>	The Decennial Logistics Management (DLM) will provide logistics management services including procuring warehouse space, warehousing, inventory management, kit assembly, deployment of materials, and receiving and excessing materials.
<b>IT Infrastructure</b>	<p>The purpose of the IT Infrastructure (ITIN) operation is to provide the IT-related infrastructure support to the 2020 Census, including:</p> <ul style="list-style-type: none"> <li>• Enterprise systems and applications.</li> <li>• Decennial-specific systems, applications, and interfaces.</li> <li>• Field IT infrastructure (RCC, field office, and paper data capture center).</li> <li>• Mobile computing.</li> <li>• Cloud computing.</li> </ul>
Program Management	
<b>Program Management</b>	The Program Management (PM) operation defines and implements program management policies, processes, and the control functions for planning and implementing the 2020 Census in order to ensure an efficient and well-managed program.

## Appendix B: Detailed Operational Plan Release Schedule as Documented in the v1.0 and v2.0 2020 Census Operational Plan

	Detailed Operational Plan	DOP Release Dates via Operational Plan v1.0	Revised release date Operational Plan v2.0
	(8) Address Canvassing - RELEASED (ADC)	September 2015	
1	(8) Address Canvassing (ADC) - Release w/new template	September 2016	<div>December 2016*</div> <div>December 2016*</div> <div>March 2017</div>
2	(7) Local Update of Census Addresses (LUCA)		
3	(4) Content and Forms Design (CFD)		
4	(5) Language Services (LNG)		
5	(12) Internet Self-Response (ISR)		
6	(13) Non-ID Processing (NID)		
7	(10) Paper Data Capture (PDC)		
8	(22) Redistricting Data Program (RDP)		
9	(11) Integrated Partnership and Communications (IPC)		
10	(17) Census Questionnaire Assistance (CQA)		
11	(19) Response Processing (RPO)		
12	(6) Geographic Programs Operation (GEOP) — Geographic Delineations Component (GEOP/GD)	No date released in 2020 Ops Plan	September 2016
13	(6) Geographic Programs Operation (GEOP) — Geographic Partnerships Component (GEOP/GP)		
14	(6) Geographic Programs Operation (GEOP) — Geographic Data Processing Component (GEOP/GDP)		
15	(33) Decennial Logistics Management (DLM)	September 2016	June 2017
16	(34) IT Infrastructure (ITIN)		March 2017
17	(18) Nonresponse Followup (NRFU)		December 2016*
18	(9) Forms Printing and Distribution (FPD)		March 2017
19	(14) Update Enumerate (UE)	September 2017	March 2017
20	(15) Group Quarters (GQ)		June 2017
21	(32) Field Infrastructure (FLDI)	September 2016	June 2017
22	(31) Decennial Service Center (DSC)	January 2017	June 2017
23	(21) Data Products and Dissemination (DPD)	September 2017	June 2017
24	(30) Evaluations and Experiments (EAE)		September 2018
25	(27) Coverage Measurement Design & Estimation (CMDE)		September 2017
26	(28) Coverage Measurement Matching (CMM)		September 2017
27	(29) Coverage Measurement Field Operations (CMFO)		September 2017
28	(20) Federally Affiliated Americans Count Overseas (FAA)		September 2018
29	(16) Enumeration at Transitory Locations (ETL)		September 2018
30	(25) Archiving (ARC)	September 2018	September 2017
31	(23) Count Review (CRO)	September 2017	September 2018
32	(26) Island Areas Censuses (IA)		September 2018
33	(24) Count Question Resolution (CQR)	September 2018	September 2018
34	(1) Program Management (PM)		
35	(2) Systems Engineering & Integration (SEI)		
36	(3) Security, Privacy and Confidentiality (SPC)	September 2016	March 2017

**Note: All reports are released via the 2020 Census Memorandum Series.** This plan was released September 28, 2016.

\*Work on these detailed operational plans was delayed so existing staff could focus on higher priority 2017 Census Test preparations.

## Appendix C: Acronyms

ABR.....	Active Block Resolution
ACO .....	Area Census Offices
ACS .....	American Community Survey
ADSD .....	Applications Development and Services Division
AMO .....	Area Manager of Operations
AMSD .....	Administrative and Management Systems Division
ARM.....	Administrative Records Modeling
ATAC.....	Automated Tracking and Control
ATP .....	Architecture Transition Plan
ATT .....	Authority To Test
AVI.....	[Telephone: robocall]
AVT .....	Address Validation Test
AWS.....	Amazon Web Services
BAS .....	Boundary and Annexation Survey
BBSP .....	Block Boundary Suggestion Project
BCU.....	Basic Collection Unit
BYOD .....	Bring Your Own Device [The use of employee-owned equipment/services.]
C-SHARPS .....	Census Schedule A Human Resources Payroll System
CASS.....	Coding Accuracy Support System
CAT .....	Customer Acceptance Testing
CATI .....	<i>Computer Assisted Telephone Interviewing</i>
CCs.....	Contact Centers
CDR.....	Critical Design Review
CEDCaP .....	Census Enterprise Data Collection and Processing
CES.....	Center for Economic Studies
CFD .....	Content and Forms Design
CHEC .....	Census Hiring and Employment Check
CM .....	Coverage Measurement
CMS .....	Center for Medicare and Medicaid Studies
COMPASS .....	Census Operations Mobile Platform for Adaptive Services and Solutions
CQA .....	Census Questionnaire Assistance
CRM.....	<i>Customer Relationship Management</i>
CSAC .....	Census Scientific Advisory Committee
CSM .....	Center for Survey Measurement
DAPPS .....	Decennial Applicant, Personnel, and Payroll System
DCBO .....	Decennial Communications and Budget Office
DCMD .....	Decennial Census Management Division
dDaaS .....	decennial Device as a Service
DDSSO .....	Decennial Directorate Support Services Office
DID.....	Design Intent Drawings
DITD.....	Decennial Information Technology Division
DOP .....	Detailed Operational Plan
DPMO .....	Decennial Program Management Office
DROM.....	Decennial Research Objectives and Methods Group
DSSD .....	Decennial Statistical Studies Division
DTO .....	Decennial Translation Office
EAE .....	Evaluations and Experiments
ECaSE .....	Enterprise Censuses and Surveys Enabling
ECaSE-Enum.....	Enterprise Censuses and Surveys Enabling-Enumeration
ECaSE-ISR.....	Enterprise Censuses and Surveys Enabling-Internet Self-Response
ECaSE-OCS.....	Enterprise Censuses and Surveys Enabling-Operational Control System
EFU .....	Evaluation Followup
ENUM .....	Enumerators in the Field
ENUMPREP .....	Enumeration Preparation
eResponse IT.....	Electronic Response Data Independent Test

ES..... English/Spanish, otherwise known as Bilingual  
 ESB ..... Enterprise Service Bus  
 FAQ..... *Frequently Asked Questions*  
 FMO..... Field Manager of Operations  
 FY..... *Fiscal Year*  
 FSCPE..... Federal-State Cooperative for Population Estimates  
 GAADS ..... Geographic Area Analysis and Delineation System  
 GAO ..... Government Accountability Office  
 GEO ..... Geography Division  
 GPO ..... *Government Publishing Office*  
 GPMO.....Government Program Management Office  
 GPSD..... Geographic Partnership Support Desk  
 GQ ..... Group Quarters  
 GRF-C..... Geographic Reference File-Codes  
 GRF-N ..... Geographic Reference File-Names  
 GUPS..... Geographic Update Partnership Software  
 HU ..... Housing Unit  
 ICADE..... Integrated Computer Assisted Data Entry System  
 ICC ..... Integrated Communications Contract  
 IIP ..... Integration and Implementation Plan  
 IMS ..... Integrated Master Schedule  
 IPC ..... Integrated Partnership and Communications  
 IPT ..... Integrated Project Team  
 IR ..... Interactive Review  
 IRS ..... *Internal Revenue Service*  
 ISR ..... Internet Self-Response  
 IT ..... *Information Technology*  
 JASON..... [An independent scientific advisory group that provides consulting services to the federal government on matters of science and technology.]  
 LCO ..... Local Census Office  
 LiMA ..... Listing and Mapping Application  
 LMS ..... Learning Management System  
 LSO ..... Local Supervisor of Operations  
 LUCA ..... Local Update of Census Addresses  
 MAF ..... Master Address File  
 MAF/TIGER..... Master Address File/Topologically Integrated Geographic Encoding and Referencing  
 MAFUF ..... Master Address File Update File  
 MCM..... Mobile Case Management  
 MDM ..... Mobile Device Management  
 MES ..... Mission Enabling Services  
 MMVT..... MAF Model Validation Test  
 MOCS..... Multimode Operational Control System  
 MOJO ..... [Term for Census Operational Control System for Reengineered Field Operations]  
 MTB..... Master Address File/Topologically Integrated Geographic Encoding and Referencing system  
 . database  
 NAC ..... National Advisory Committee  
 NAS ..... *National Academy of Sciences*  
 NCT ..... National Content Test  
 “Notify Me” ..... [Census Bureau’s Preregistration Tool]  
 NPC..... National Processing Center  
 NRFU ..... Nonresponse Followup  
 NTC..... Note for Correspondents  
 OCS..... Operational Control System  
 OIG ..... *Office of the Inspector General*  
 OIS..... *Office of Information Security*  
 OMB ..... *Office of Management and Budget*

*OOS* ..... *Office Operations Supervisor*  
 OCR.....Optical Character Recognition  
 ORR ..... Operational Readiness Review  
 ORT ..... Operational Readiness Test  
 OSR ..... Optimizing Self-Response  
 PCS ..... Production Control System  
 PDC..... Paper Data Capture  
 PES..... Post Enumeration Survey  
*PM* ..... *Program Management*  
 PMGB ..... Portfolio Management Governing Board  
 PMR..... Program Management Review  
 Primus ..... [Census Bureau’s Internet Data Collection System]  
 PRR ..... Production Readiness Review  
 PSAP ..... Participant Statistical Areas Program  
 PVSed ..... [To make data private and secured]  
 PWS.....Performance Work Statement  
 PXP ..... Partnership Experience Portal  
*QC*..... *Quality Control*  
 R&T ..... Research and Testing  
 RA ..... Recruiting Assistant  
 RCC ..... Regional Census Center  
 RDP..... Redistricting Data Program  
*RFI* ..... *Request for Information*  
*RFP* ..... *Request for Proposal*  
 RO..... Regional Office  
 ROCKIT ..... Reorganized Census with Integrated Technology [Reengineered Field Operations]  
 RRB ..... Risk Review Board  
 RTNP..... Real-Time Non-ID Processing  
 RTOCS ..... Research and Testing Operational Control System  
 SBE ..... Service Based Enumeration  
 SDLC ..... Systems Development Life Cycle  
*SE*..... *System Engineering*  
 SE&I ..... Systems Engineering and Integration  
 SIMEX ..... Human in the Loop Simulation  
 SLC..... Survey Life Cycle  
 SPC ..... Security, Privacy, and Confidentiality  
 SRR ..... Systems Requirement Review  
 TEA ..... Type of Enumeration Area  
 TEMP ..... Test and Evaluation Management Plan  
 TI ..... Technical Integrator  
 TIGER ..... Topologically Integrated Geographic Encoding and Referencing  
 TQA ..... Telephone Questionnaire Assistance  
 TRR ..... Test Readiness Review  
 UAA ..... Undeliverable As Addressed  
 UAT..... User Acceptance Test  
 UE ..... Update Enumerate  
 UHE..... Usual Home Elsewhere  
*USPS* ..... *United States Postal Service*  
 UT ..... Users Test  
*UTS* ..... *Unified Tracking System*  
 VTD..... Voting Districts  
*WG* ..... *Working Group*  
 WLM..... Workload Management  
*Y&R* ..... *Young & Rubicam*

Note: Nonitalicized acronyms are those that are used mainly at U.S. Census Bureau whereas italicized acronyms are widely employed elsewhere.